The Builder

A NEWSPAPER FOR THE ARCHITECT AND CONSTRUCTOR

NO. 6168 119TH YEAR. FRIDAY, AUGUST 4, 1961. Price 1/6.

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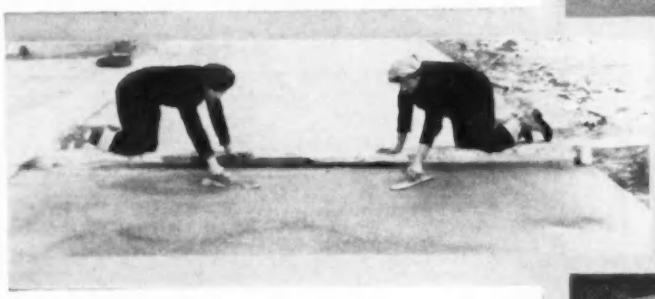

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Use silicon carbide where a sharp-gripping, hardwearing and attractive surface is required.

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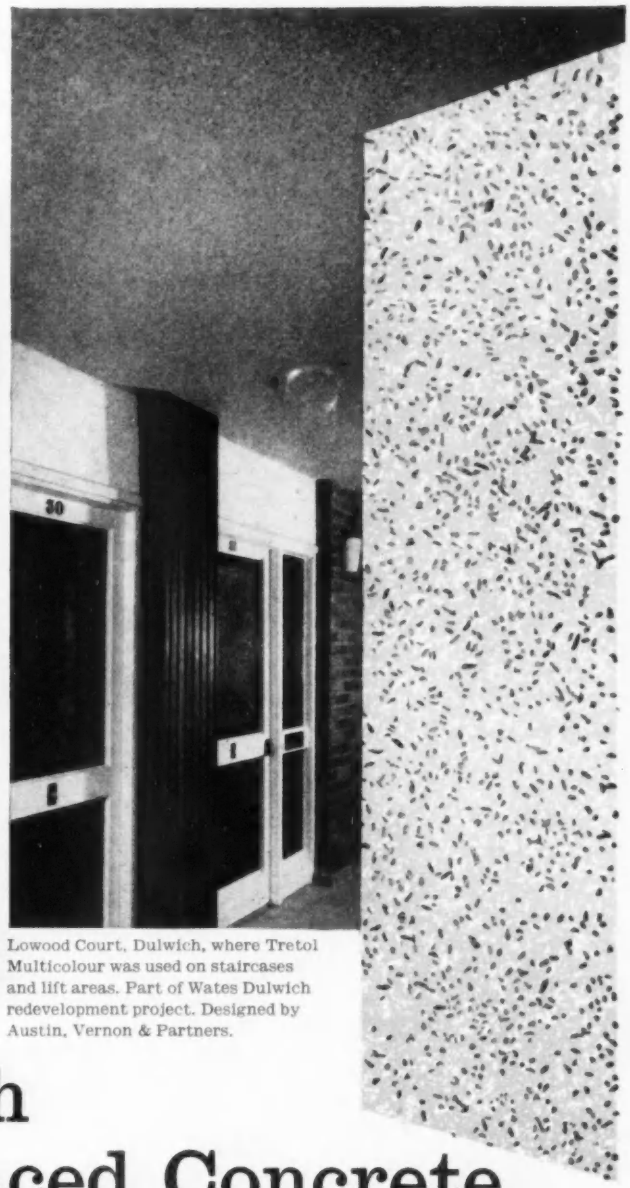

Lowood Court, Dulwich, where Tretol Multicolour was used on staircases and lift areas. Part of Wates Dulwich redevelopment project. Designed by Austin, Vernon & Partners.

Luxury Finish On Fair-Faced Concrete

For a luxury finish, costing little more than conventional paints, Wates used **Tretol Multicolour.** Its vibrant colour texture is obtained by spraying two or more colours in one operation, giving a finish impossible to achieve with monochrome materials. In this instance, Multicolour was **sprayed direct to unplastered concrete** resulting in a considerable saving in costs. The tough hard wearing Multicolour finish can be applied to almost any surface and will have **an effective life several times greater** than other decorative schemes. **Tretol Multicolour** can also be used to transform the interiors of older buildings and give them a new lease of colourful life. Send now for technical data and colour pattern card

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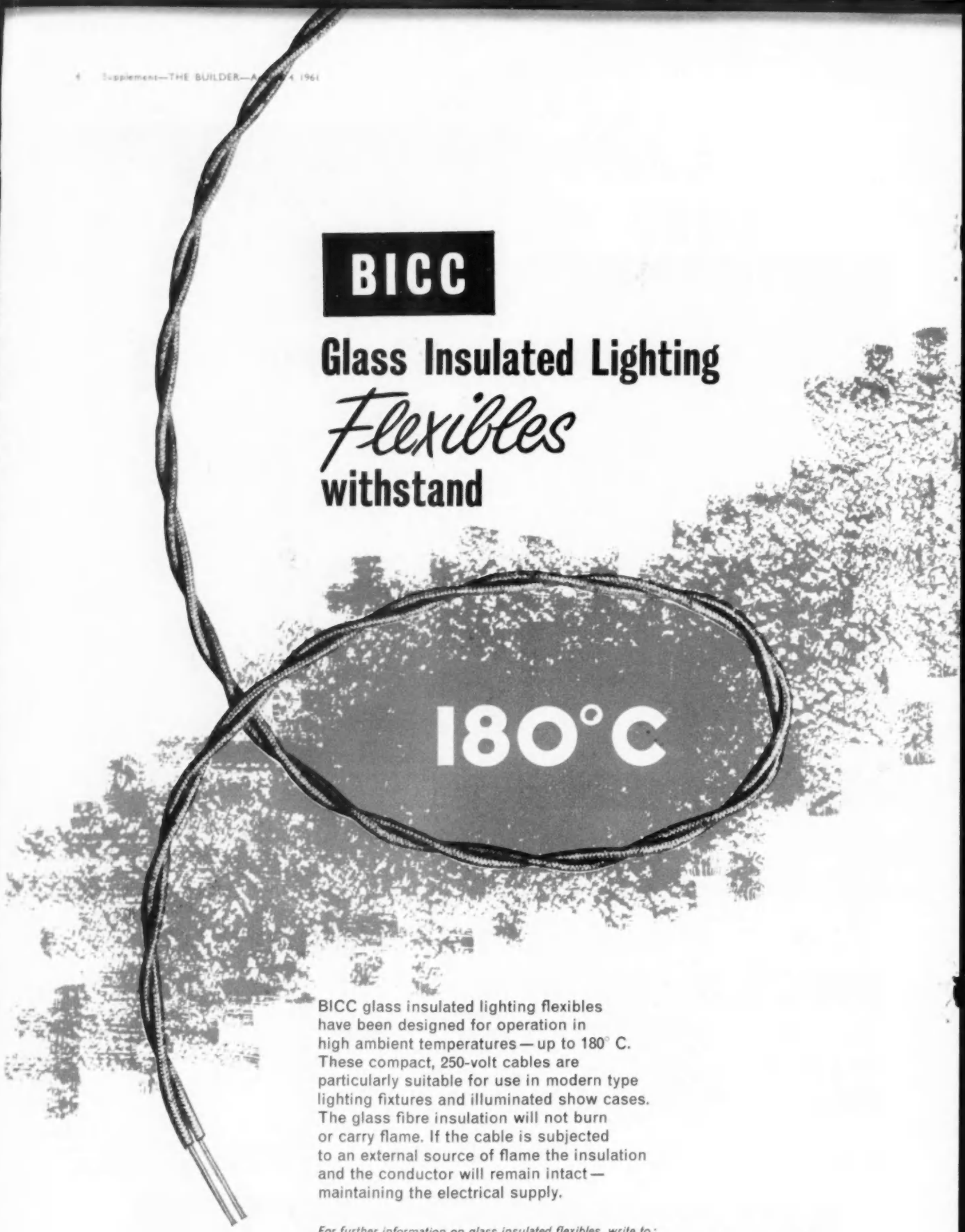

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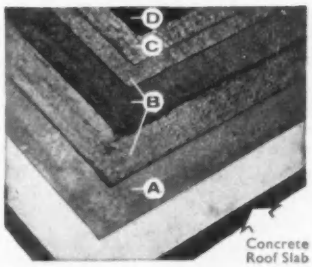

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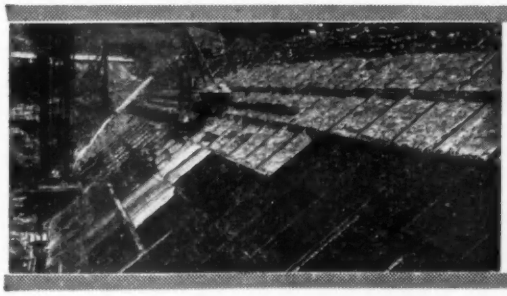

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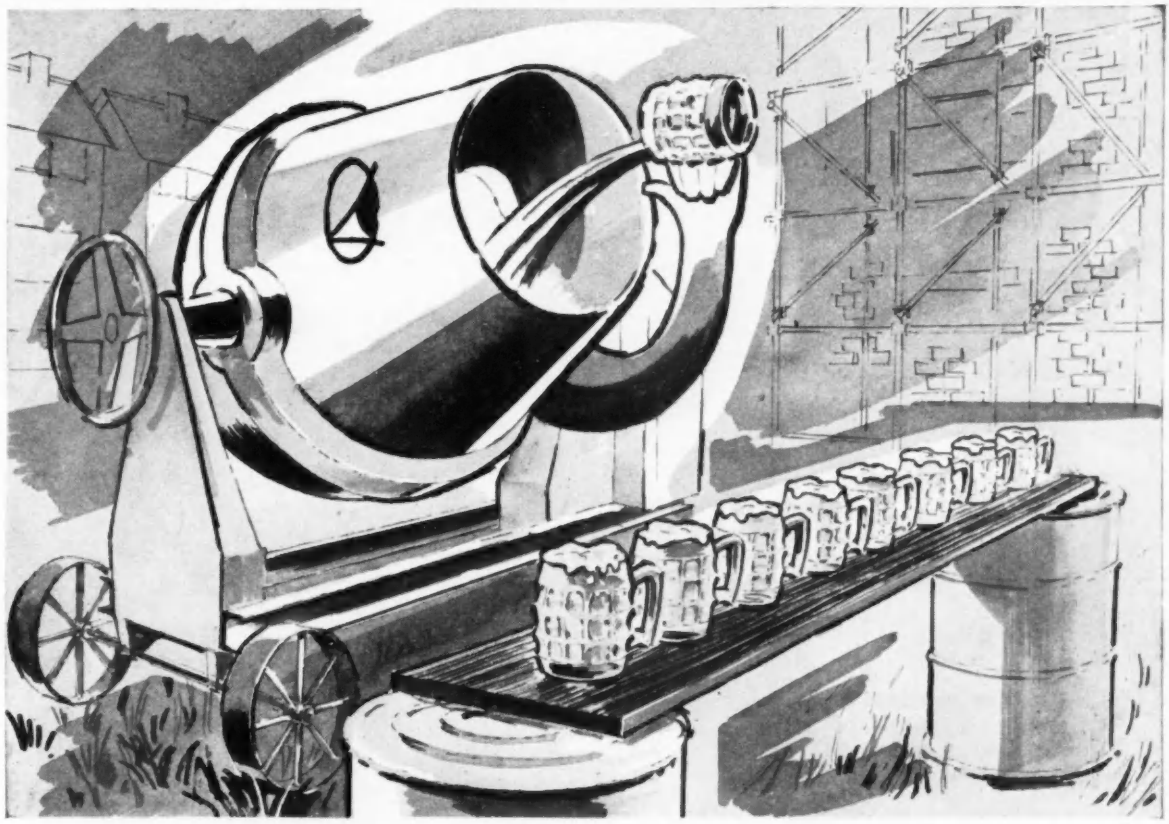

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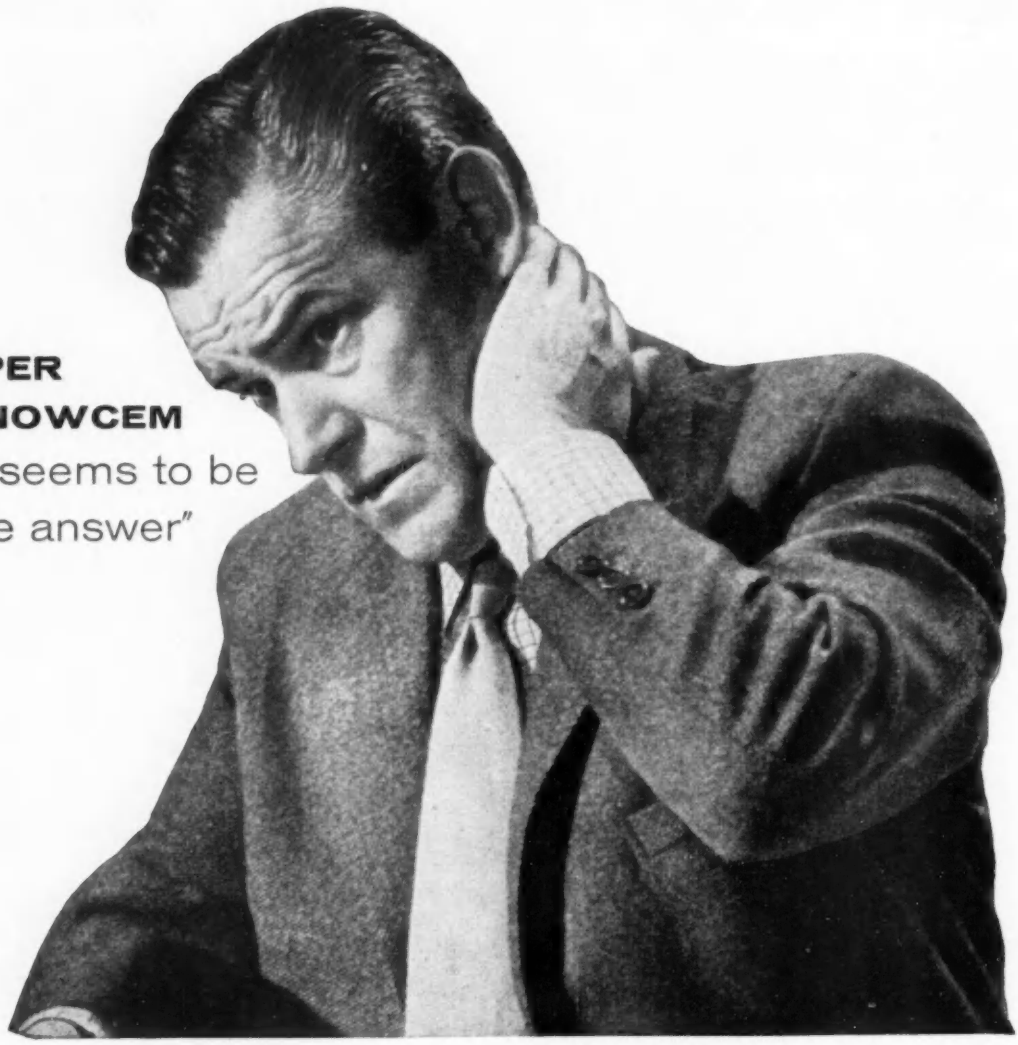

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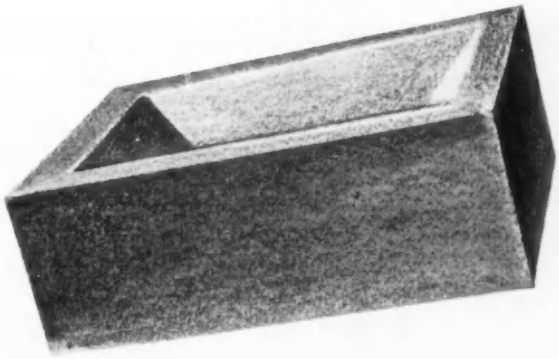
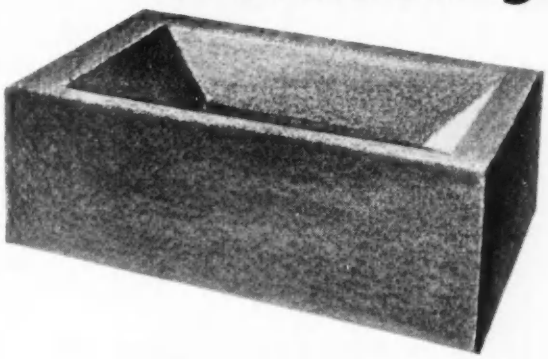


Between you and me ...



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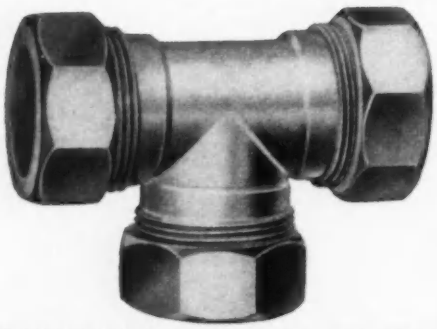

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★ Sizes ½" to 1¼" inclusive.

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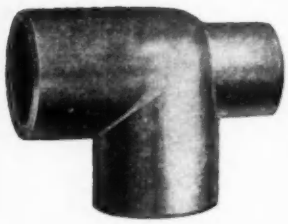

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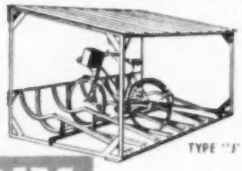
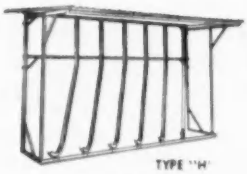


TYPE "J"



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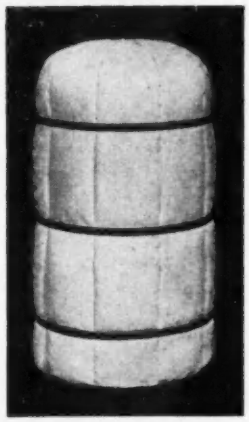

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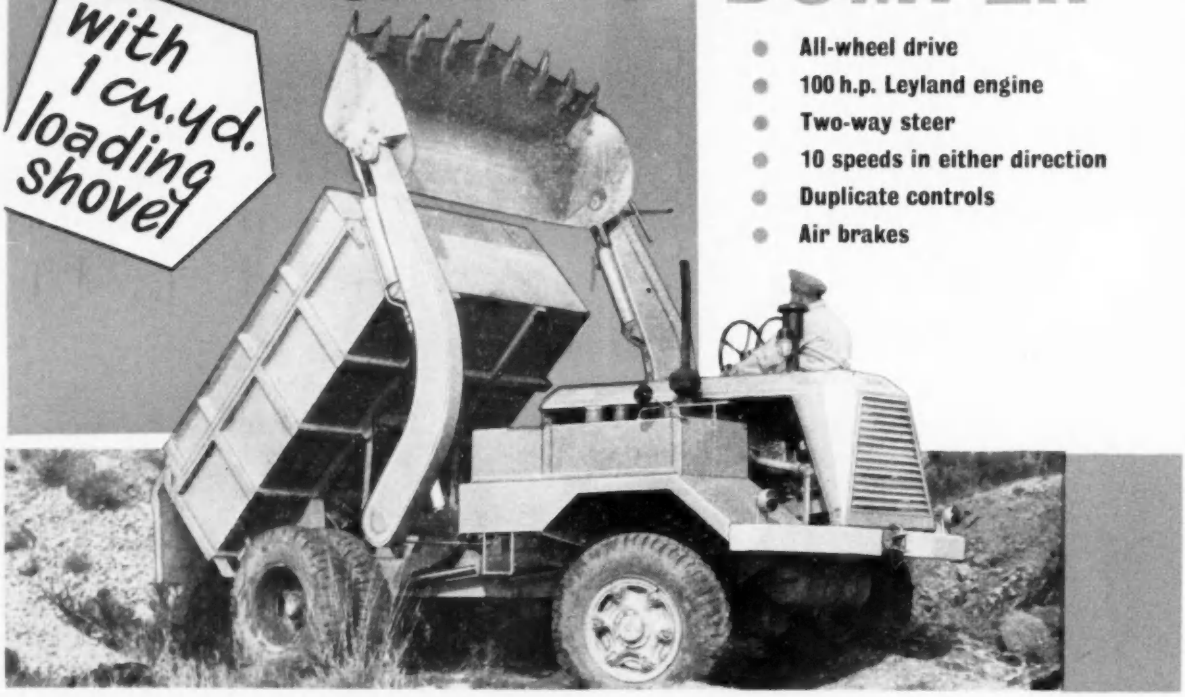

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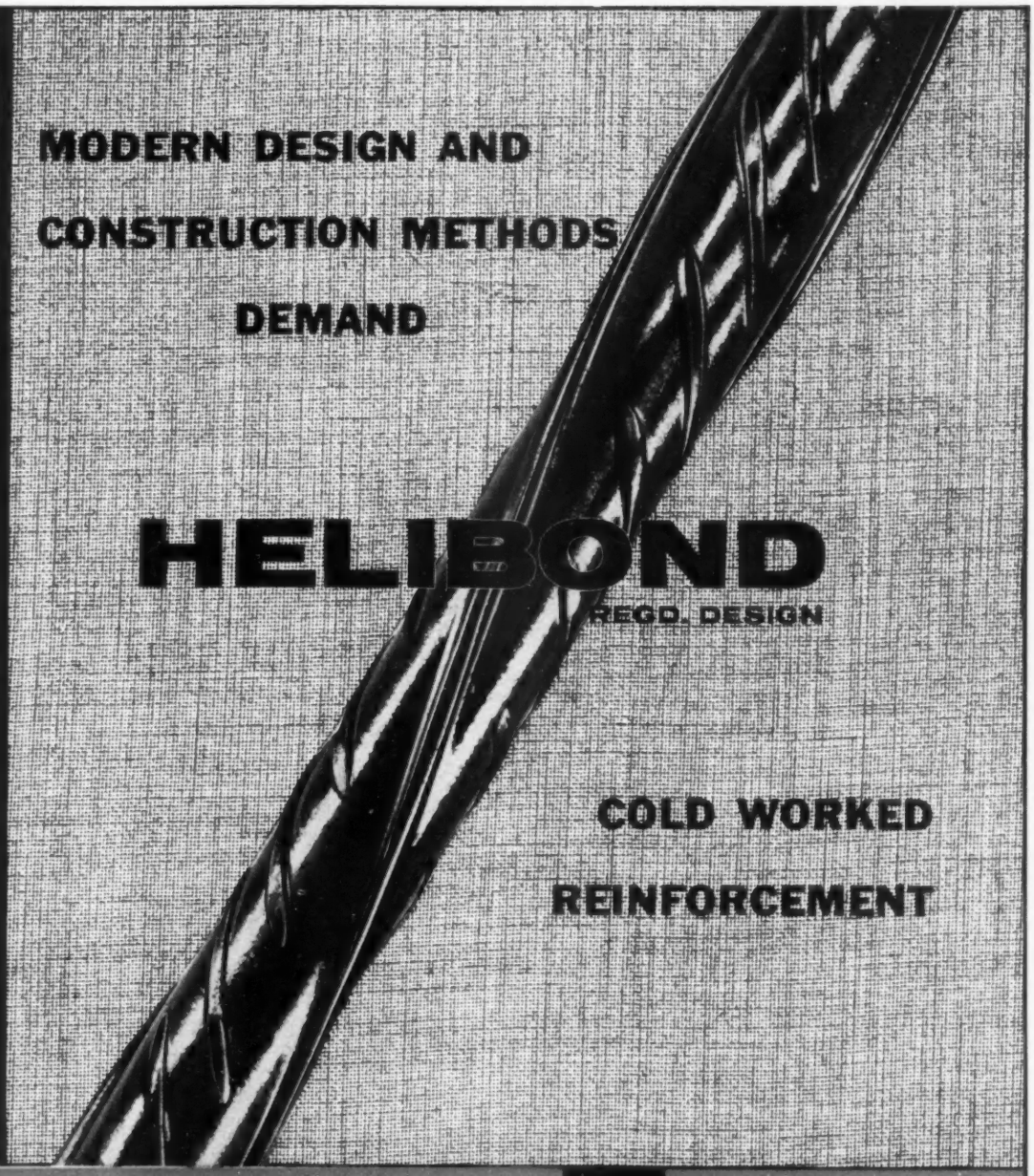

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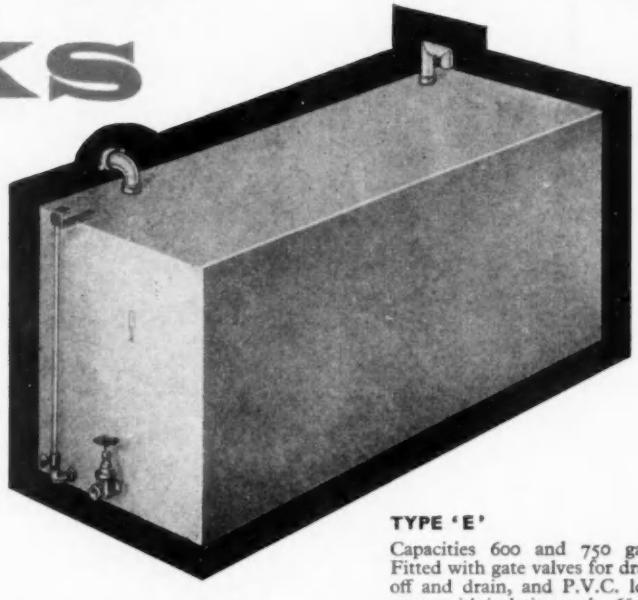
Capacities 175 and 300 galls. Fitted with two gate valves for draw-off and drain, one filler pipe with screwed cap, and vent pipe. PVC. level gauge with isolating cock. Painted externally one coat.



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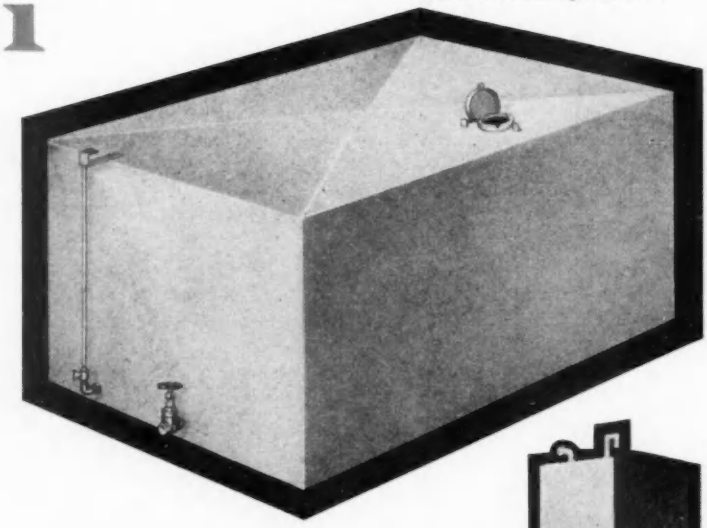

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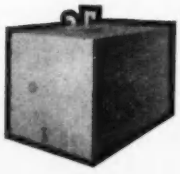

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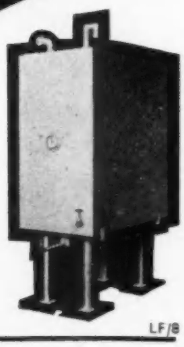

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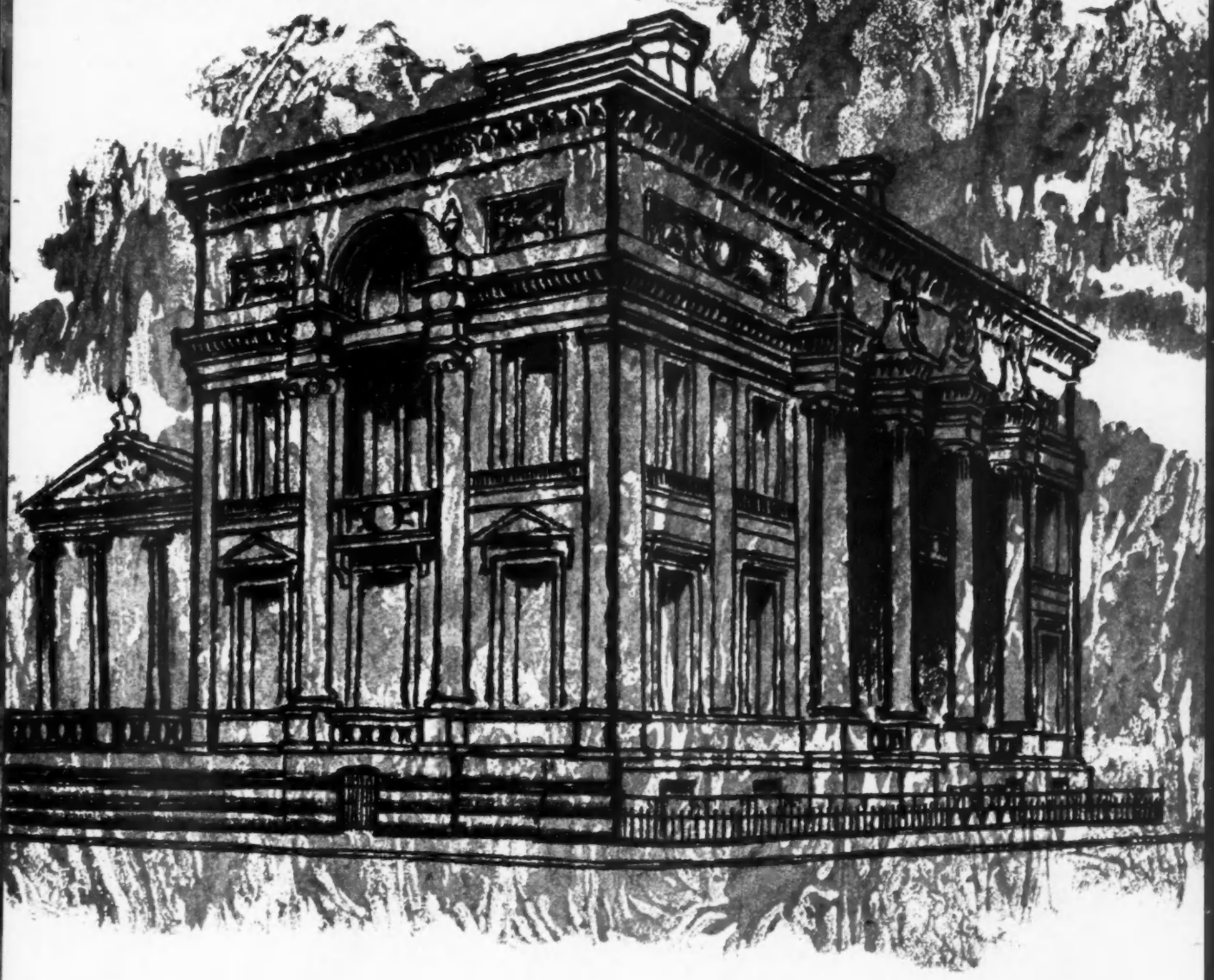
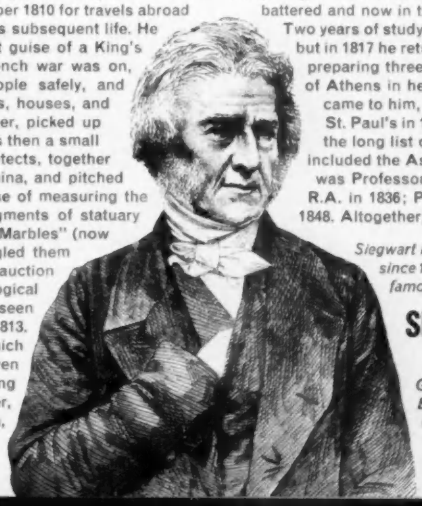


Charles Robert Cockerell *The Greek Revivalist*

Cockerell began his career with the advantages of an orthodox education. This was not surprising, for his father, Samuel Pepys Cockerell, as his name indicates, had Samuel Pepys among his ancestors. So Charles attended Westminster School, and then entered his father's office at sixteen. After five years there, and a further year in Sir Robert Smirke's office, he started in September 1810 for travels abroad which lasted seven years and profoundly influenced his subsequent life. He set sail with £200 in his pocket and in the convenient guise of a King's Messenger, in a Government despatch-boat. The French war was on, but, after sundry scares, they reached Constantinople safely, and Cockerell spent three months there, sketching palaces, houses, and mosques. With another young English architect, Foster, picked up in Turkey, he proceeded to Athens in December. It was then a small and squalid town with no proper hotel. The two architects, together with two German tourists, made a trip by boat to Aegina, and pitched their tents on the island for three weeks. In the course of measuring the Temple of Jupiter there, they discovered various fragments of statuary which later came to be known as the famous "Aegina Marbles" (now in the Munich Museum), and most shockingly smuggled them out of Greece at night, eventually to be bought at auction by the King of Bavaria. Cockerell's other archaeological scoop was the so-called "Phigaleian Marbles", to be seen in the British Museum, which purchased them in 1813. These came from the Temple of Apollo at Bassae, which Cockerell also measured. The lively account of his seven years' journeying in the Levant makes excellent reading for architects or anybody else. His companion, Foster, deserted him for a Greek girl encountered at Smyrna, and there are many other amusing incidents. The commandant of the Acropolis (then a fortress) at Athens offered to give him a souvenir if he would take it away. So he arrived at midnight with a cart, and the commandant pitched down to him, from aloft, a huge marble block forming part of the south frieze of the Parthenon (somewhat battered and now in the British Museum).



Two years of study in Rome, diluted with social dissipation, followed Athens, but in 1817 he returned at last to London. For some time he concentrated on preparing three magnificent imaginative drawings—of Rome in her glory, of Athens in her glory, and of the works of Wren; but a practice quickly came to him, almost unsought. He succeeded his father as Surveyor to St. Paul's in 1819; became Architect to the Bank of England in 1833; and the long list of his buildings from that date up to his retirement in 1859 included the Ashmolean Museum and Taylorian Institution at Oxford; He was Professor of Architecture at the Royal Academy, and was elected R.A. in 1836; President R.I.B.A. in 1860 and its Royal Gold Medallist in 1848. Altogether, a distinguished career.

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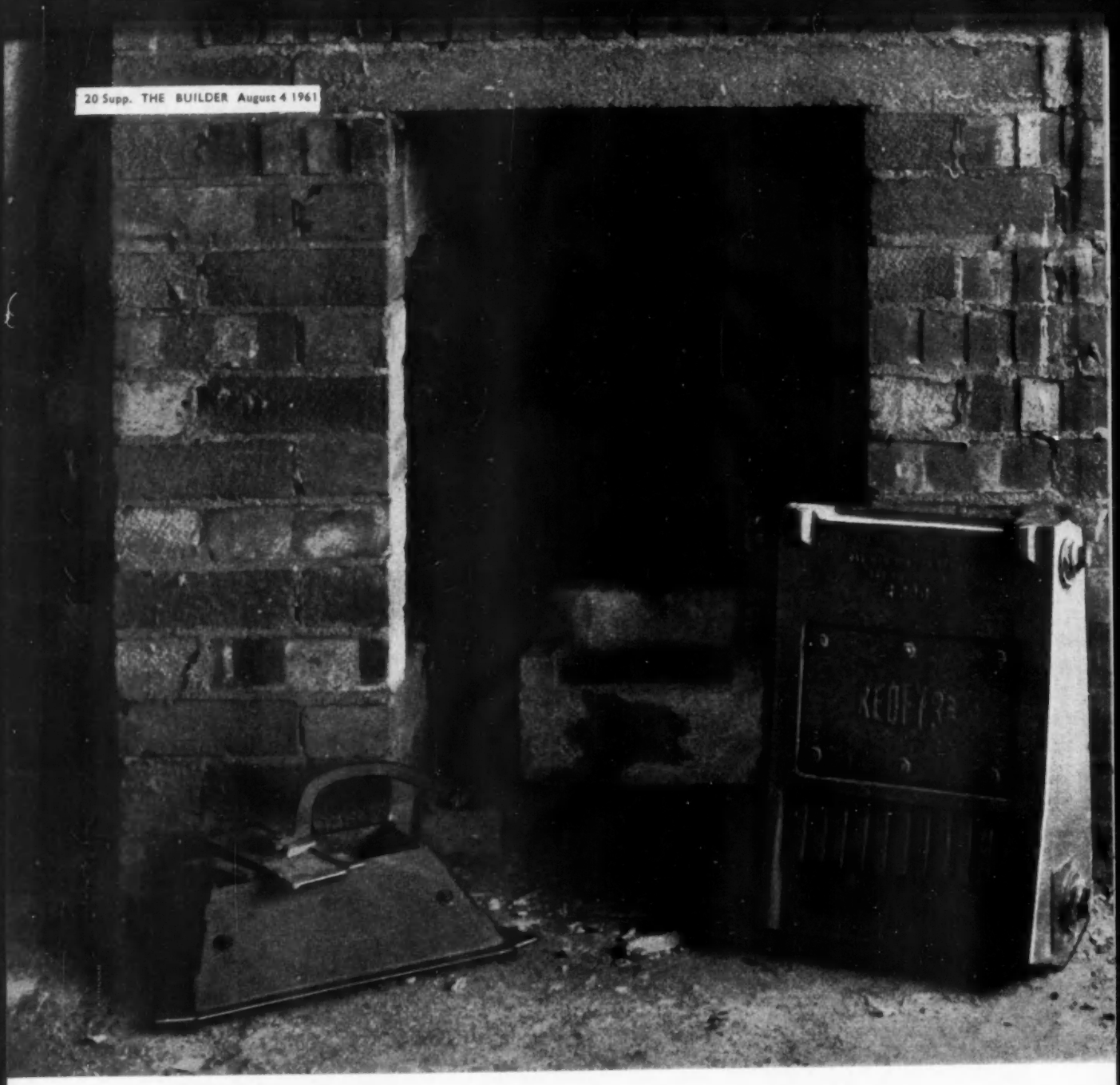

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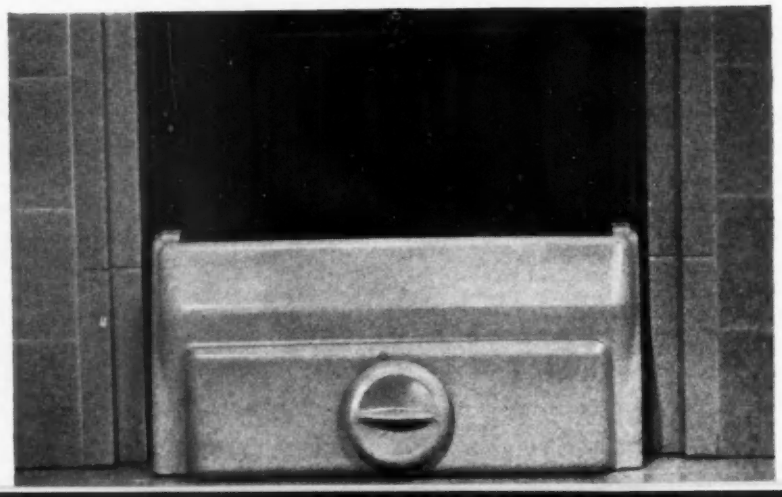

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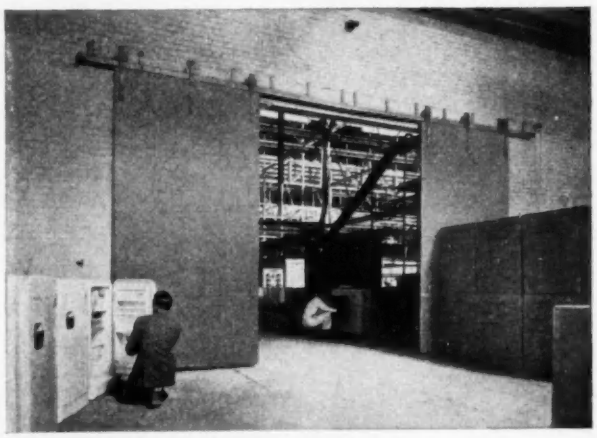

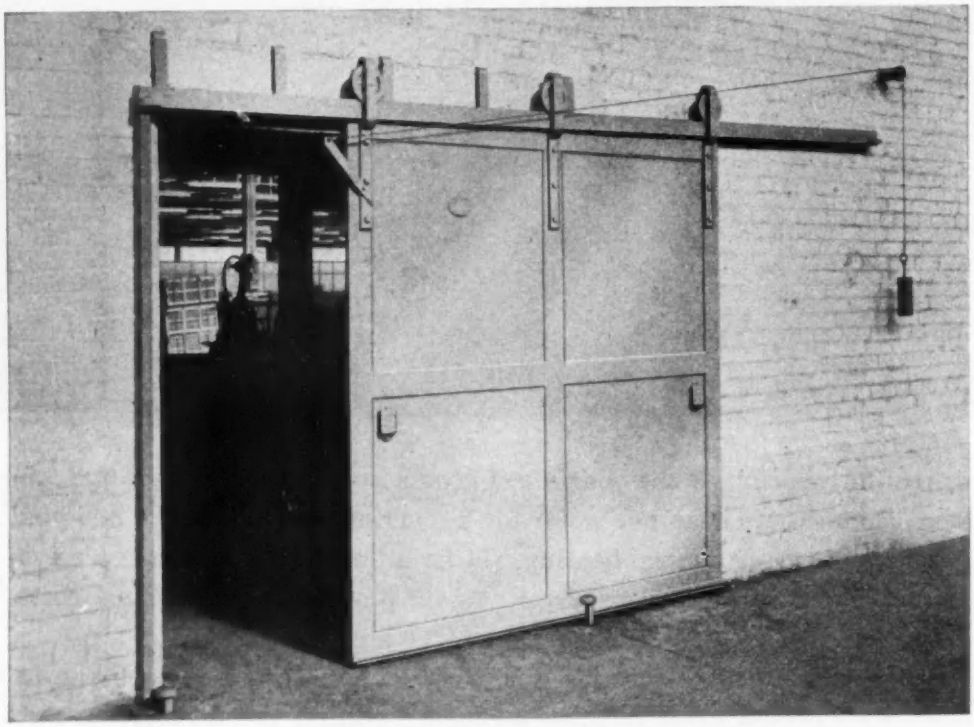

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Photographed 19 years after fixing. Corridor at Longton High School, Stoke-on-Trent.
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Photographed 20 years after fixing. Cloakroom at Chell Secondary Modern School, Stoke-on-Trent.
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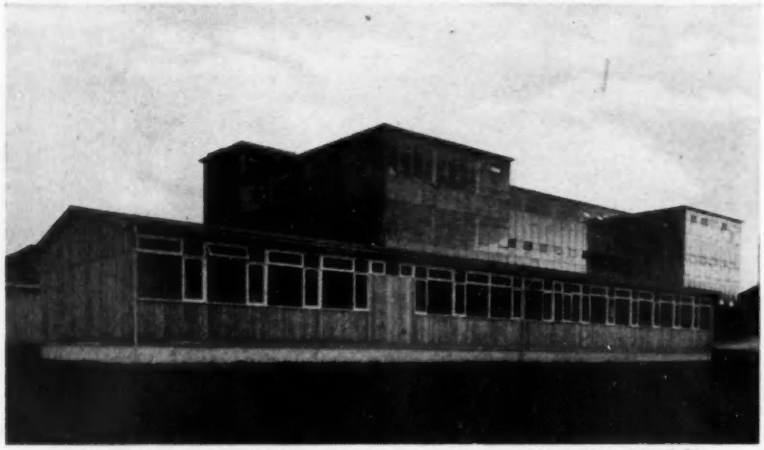
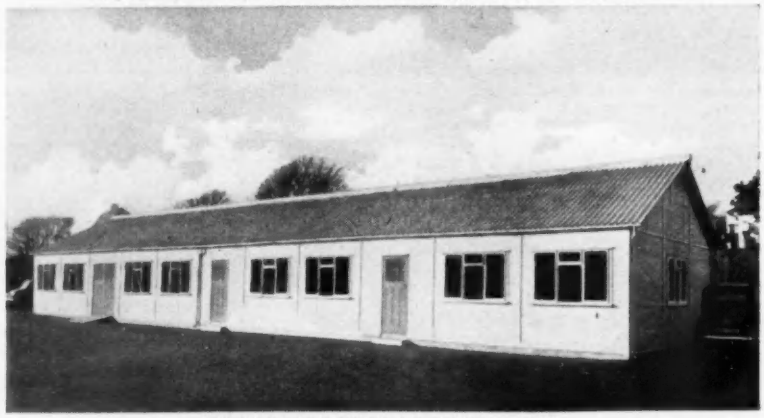


TEMPORARY CLASSROOMS, SPEEDWELL SECONDARY BOYS' SCHOOL.
Photograph by courtesy of The Chief Education Officer, City & County of Bristol.



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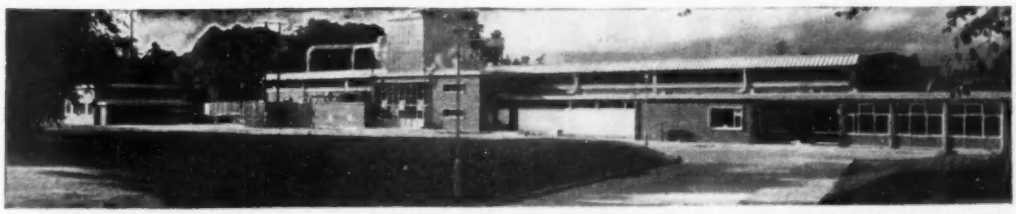

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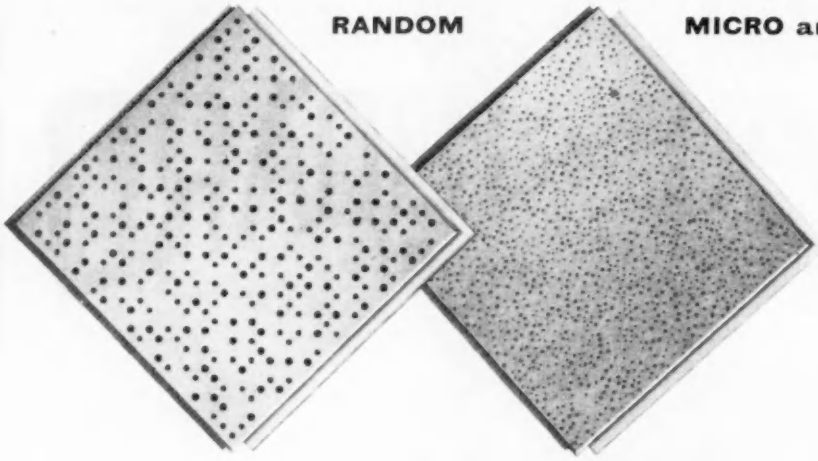

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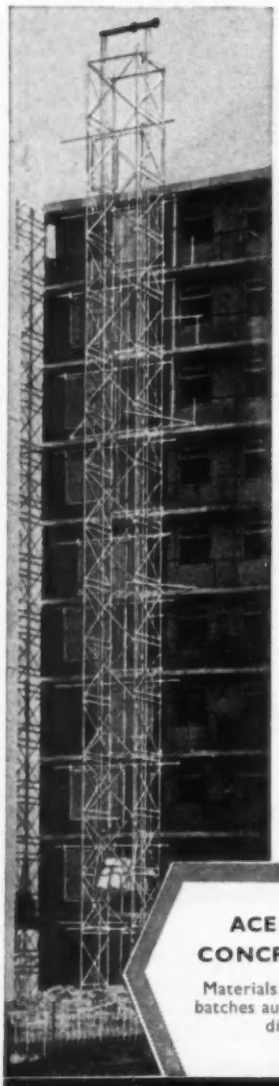

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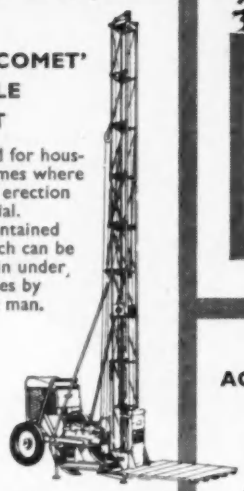

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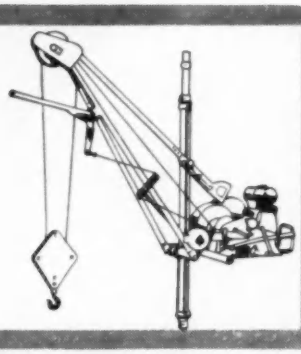

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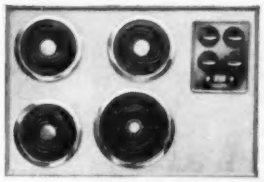

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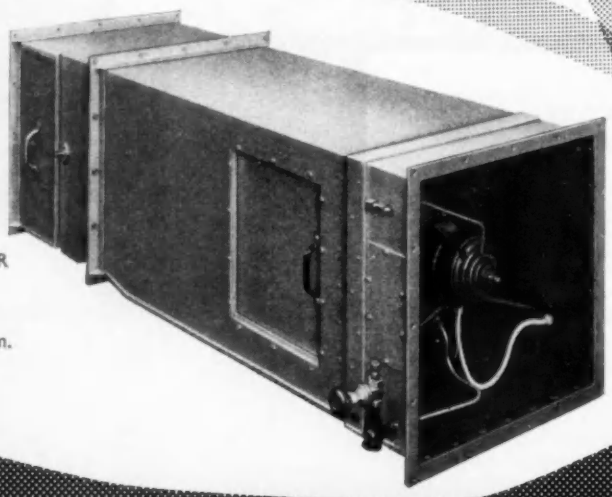

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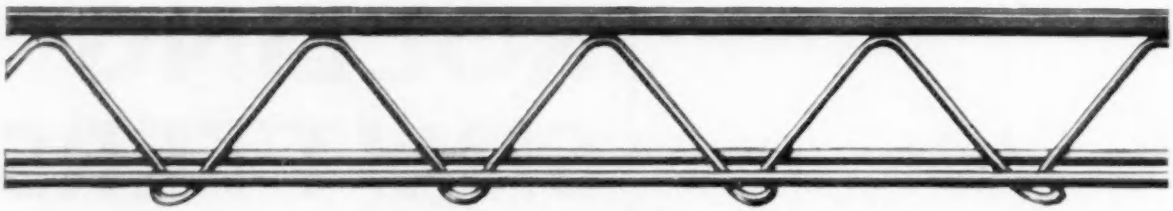

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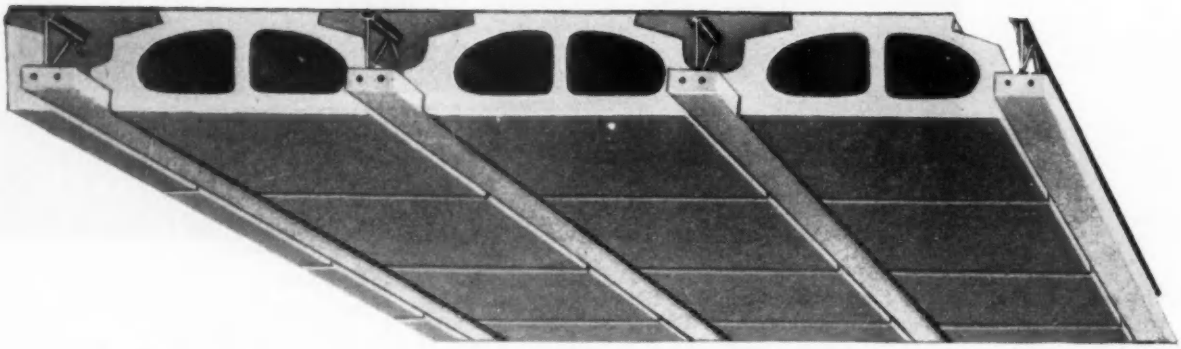

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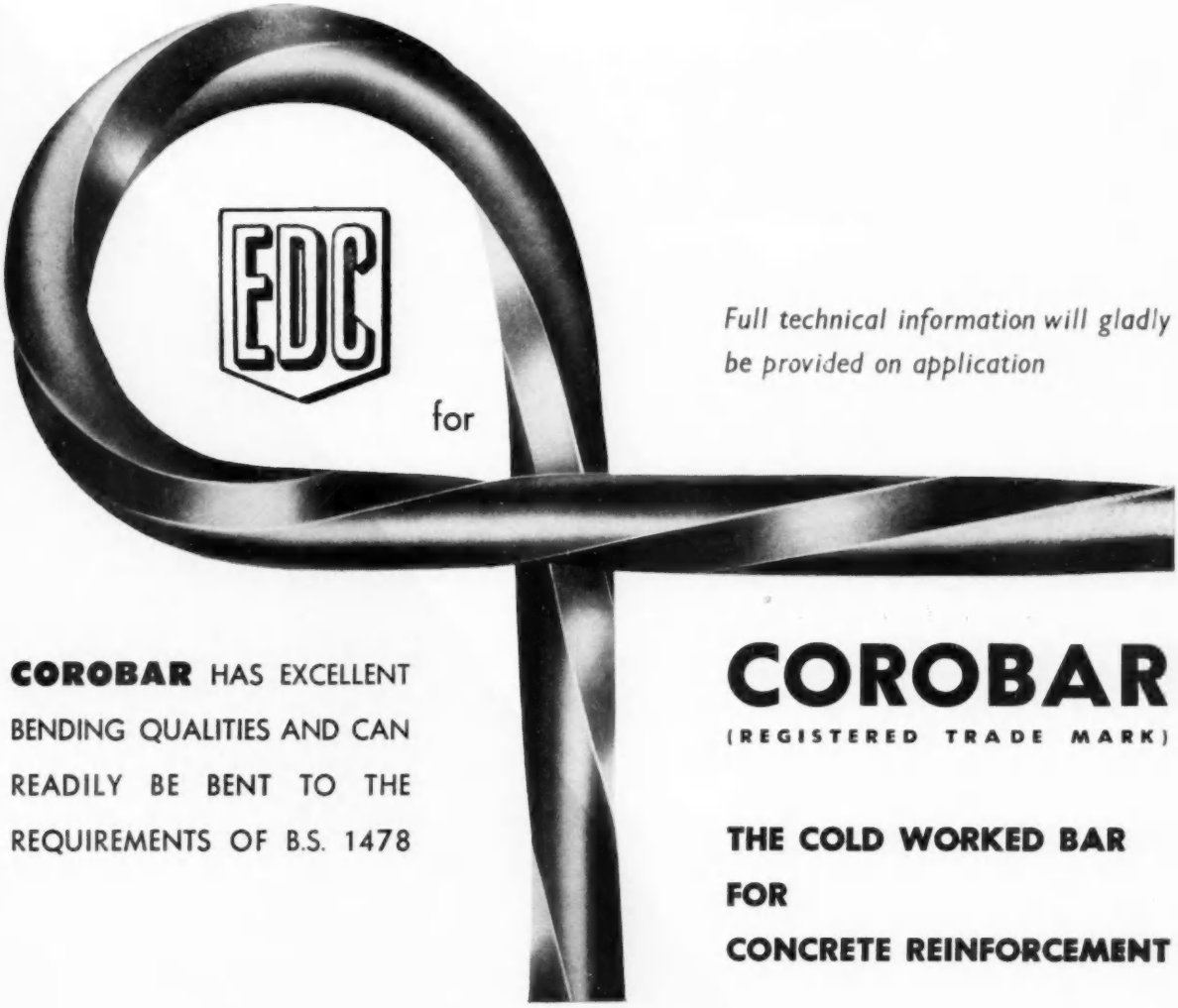

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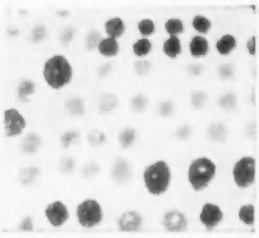
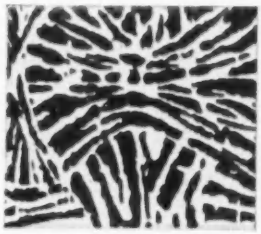


MEZZOLA

ECLIPSE



DIABOLO

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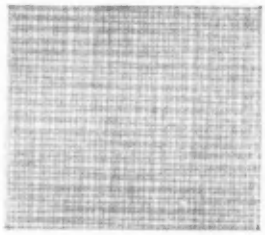
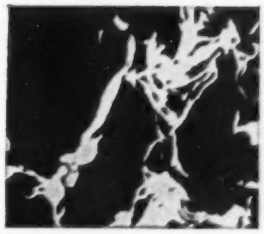


TESSUTO



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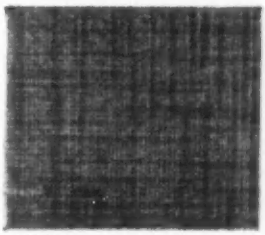

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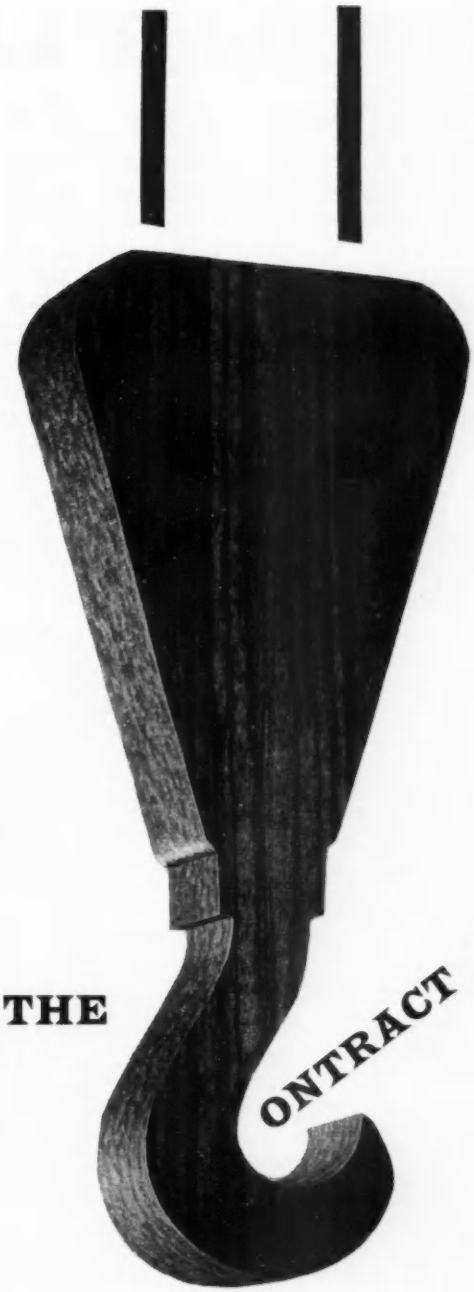

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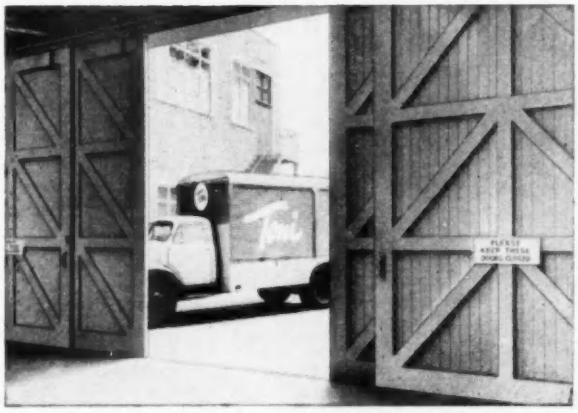

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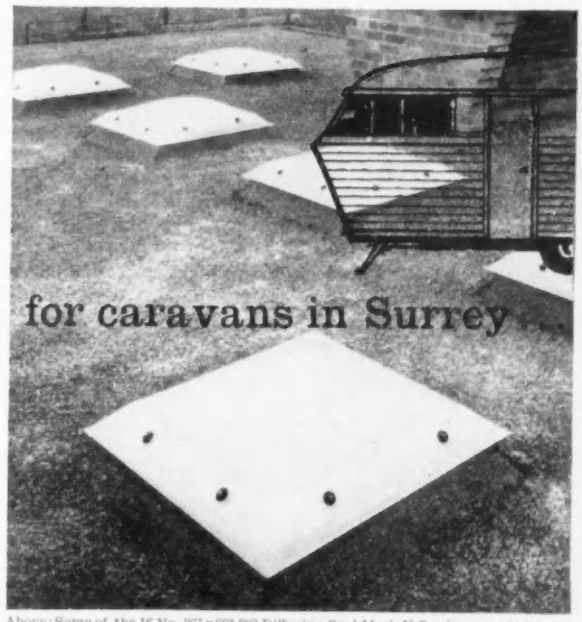

Above: Some of the 16 No. 36" x 36" 090 Diffusing Opal Mark II Coxdome rooflights installed over the Ablutions Blocks, Heathervale Caravan Site, for the Chertsey Urban District Council. Engineer & Surveyor to Chertsey Urban District Council: M. C. Goldsmith, Esq., M.B.E., M.I.Mun.E., F.R.S.A. Contractors: Richard Boater, Chertsey.

Below: Some of the 11 No. 36" x 36" Clear Mark II Coxdomes installed at the Cardinal Godfrey School, Ashford, Middx.
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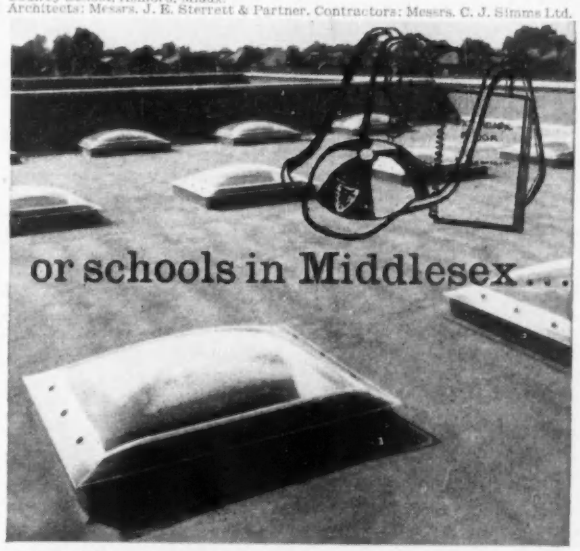

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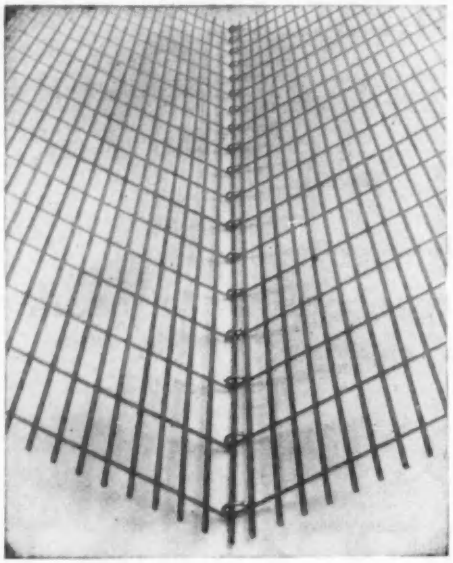

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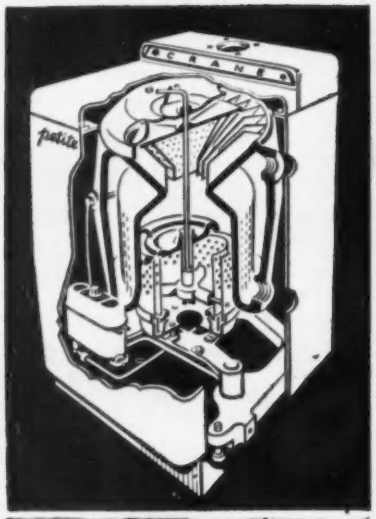

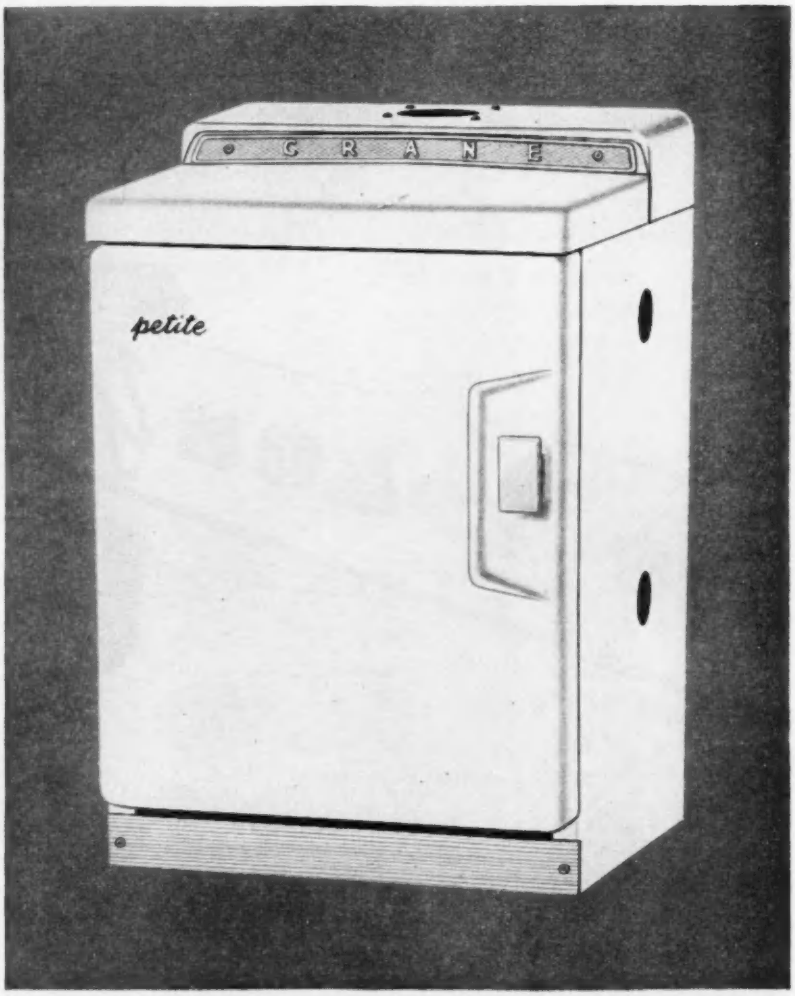

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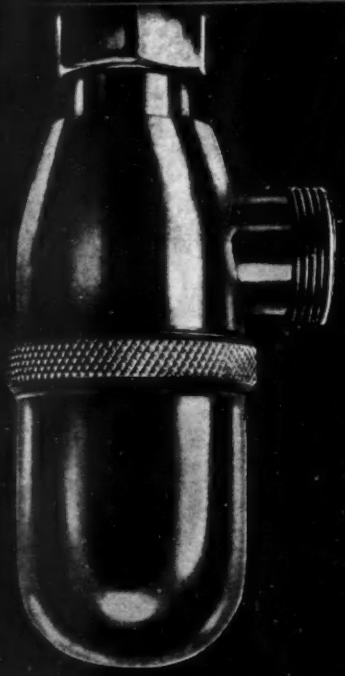

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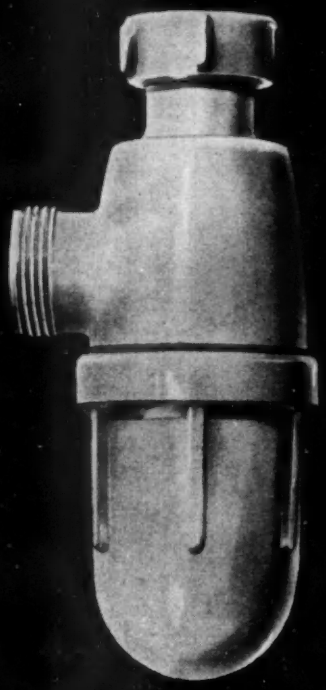

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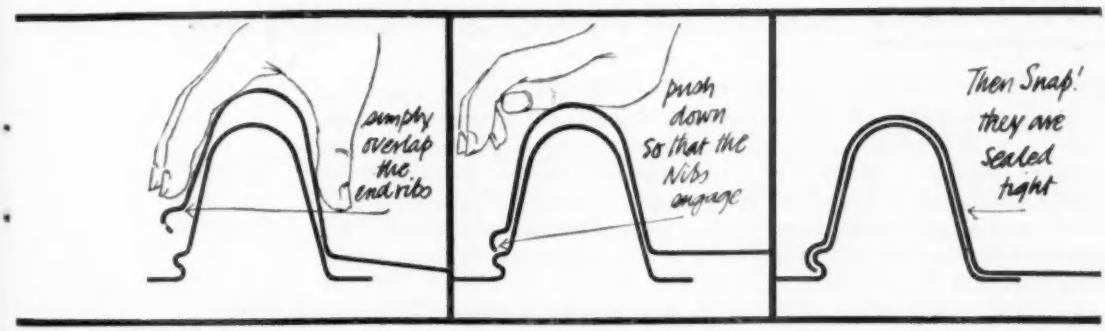

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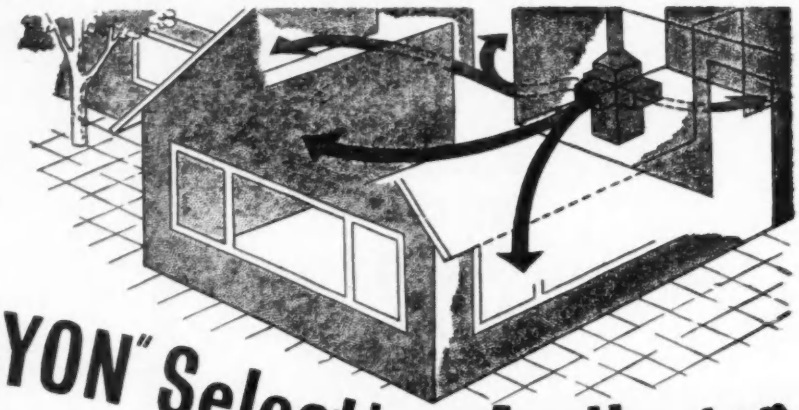

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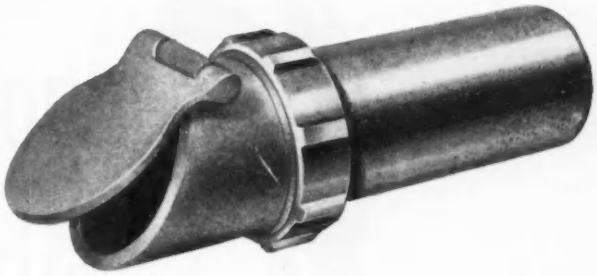

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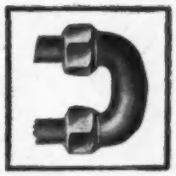

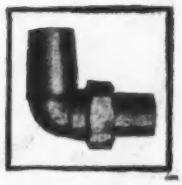

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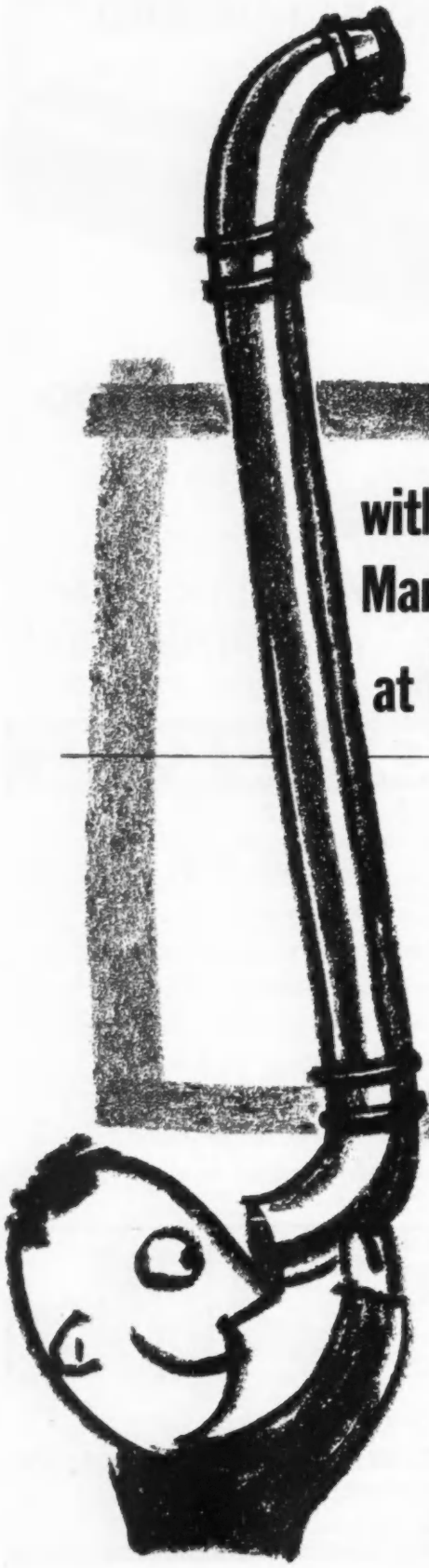

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because these new gutters and downpipes are so light, so easy to handle.

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No jointing compound to fix. The recessed socket comes fitted with a special neoprene gasket to hold the spigot flush in the socket.
Stop ends and swannecks are heavy grade vinyl, and all units are available in grey with vinyl coated brackets.

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News Summary

203 The IUA Town Planning Commission is to give special consideration during the next two years to the particular problems arising out of the theme of the next IUA Congress, 'The Architecture of Developing Countries.'

206 Eight Cambridge colleges are to receive grants for repairs on the recommendation of the Historic Buildings Council.

210 A new seaside town is to be built near Towyn, Merionethshire, to include 1,000 dwellings, hotels and an entertainments centre.

211 A major building scheme affecting the sea front at Brighton is to be submitted to the MoHLG for approval.

212 The Study Group on recruitment for the profession at the recent Chartered Surveyors' Conference recommends that careful consideration be given to the establishment of a 'second tier' of the profession, who could 'very easily have certain professional work delegated to them.'

212 The draft Building Standards (Scotland), have now been issued and are on sale at HMSO.

214 Development of the northern precincts of St. Paul's was approved by the Court of Common Council despite a request from the LCC to withhold such approval for further consideration of the proposed scheme.

216 The planning and engineering problems associated with the establishment of helicopter stations in London are examined in a report published by the Minister of Aviation.

218 Birmingham Works Committee have refused an offer by a firm of contractors to complete a road scheme several months ahead of schedule in return for extra payment.

'Late News' will be found overleaf, and 'News of the Week' on page 207.

Late News

RICS Consultant Architect

THE COUNCIL of the Royal Institution of Chartered Surveyors have appointed Mr. Denys Lasdun, MBE, FRIBA, of Messrs. Denys Lasdun & Partners, to be consultant architect to the Institution with a view to obtaining planning permission and other necessary consents for rebuilding on the site of the Institution at 11 and 12 Great George-street, Westminster, SW1. Mr. Alfred Harris, DSO, FRICS, of Messrs. Widnell & Trollope, has been appointed as consultant quantity surveyor.

Slowing Down in Housing

THE EFFECT of the Chancellor's economic measures upon housing was brought to light during questions to Mr. Henry Brooke, Minister of Housing and Local Government in the Commons on Tuesday. Said Mr. Brooke: 'At the end of June local authorities and new towns in England and Wales had 123,000 houses and flats under construction, 4,600 more than a year ago, and many of them were complaining that shortages of building labour were delaying completions. The first thing therefore is to get these finished and also the 47,000 in tenders approved but not yet started. I shall slow down the rate at which I approve further tenders, particularly in areas where the housing need appears less urgent, but I cannot say by how much it will be necessary to do so.'

Mr. Brooke said he appreciated the problem facing the new town local authorities in providing facilities which established towns already had. But to help the country out of its economic difficulties he might have to postpone loan sanction for some projects which seemed not as urgent as others.

The Housing Progress Report, issued Wednesday, states that in the first six months of 1961, 144,522 houses were completed in Great Britain compared with 143,934 in the same period of 1960.

Asked in the Commons on Monday by Lord Balniel if financial allocations to hospital boards for 1961-63 would remain as already announced, MR. POWELL, the Minister of Health, said 'yes.'

The Late G. W. Buchanan, CBE

THE DEATH has taken place of Mr. George W. Buchanan, CBE, of the firm of Wm. Lorden and Son, of London, SW. Mr. Buchanan was president of the National Federation in 1945, and hon. treasurer for many years afterwards. He was a former president of the LMBA and had served for nearly a quarter of a century on the National Joint Council, of whose grading commission he had been chairman from 1939 until its demise in 1960.

The Builder

INCORPORATING ARCHITECTURE & THE BRITISH ARCHITECT

Vol. CCI. August 4th 1961 No. 6168

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Leading Articles

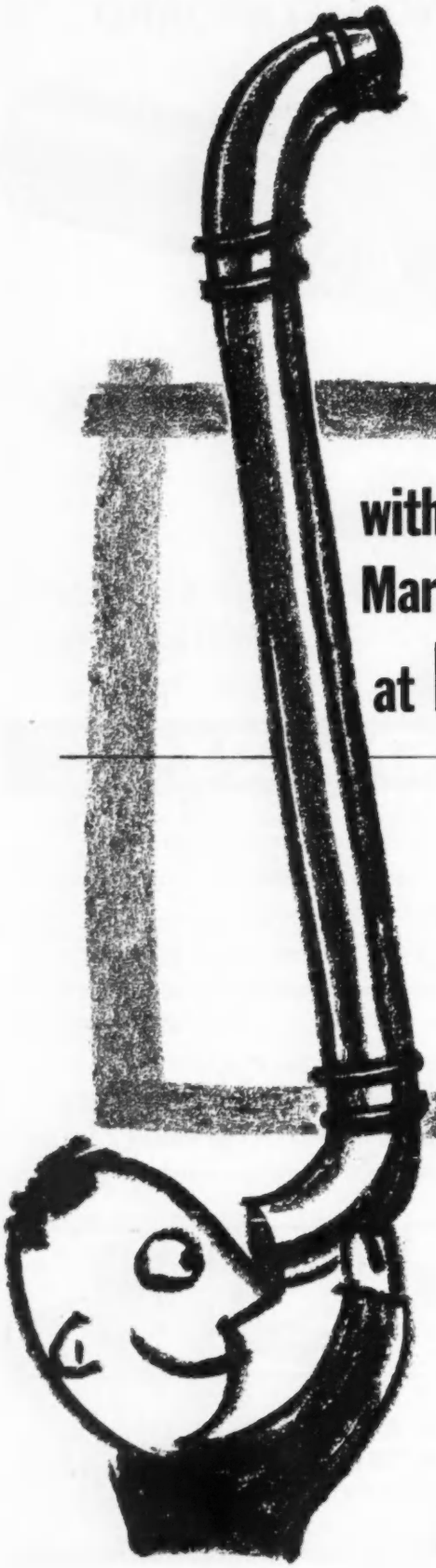
Economic Policy and the Building Industry

THE CHANCELLOR OF THE EXCHEQUER'S proposals for dealing with the nation's economic difficulties, outlined in the House of Commons last week and reported in detail on another page, fall into two main groups, the short term and the long term. Among the short-term expedients adopted the raising of Bank rate from 5 to 7 per cent is by far the most significant for the building industry. In due course higher Bank rate can be expected to reduce private building considerably. Moreover, it is estimated that at the present time builders owe the banks no less than £170m., and simple arithmetic will show that the sums involved by an increase of 2 per cent in Bank rate are considerable. By comparison, the extra 3d. a gallon on petrol and the 10 per cent increase in duty on light oils (which will increase the price of paint) are less important. Other measures include requests to the banks and building societies to be more severe on loans to finance 'speculative building' and the suspension of the house purchase scheme, which was costing the Government about £40m. a year, for older houses.

In regard to the long term proposals, the Chancellor's intentions still remain vague and obscure on many points. The nationalised industries and local authorities are to be asked to keep down expenditure or postpone certain projects, and the New Town Development Corporations to keep to their present rate of expenditure and where possible make reductions. Nor is it clear as yet whether 'speculative building' means only offices or includes private housing. At the time of going to press the only Government Department to announce cuts in building is Education, which is postponing new starts until October.

Although no such proposal featured in the Chancellor of the Exchequer's announcement, if the Government wished to lighten the load on the industry to a moderate extent, they might do worse than consider giving the Ministry of Housing and Local Government powers to discriminate between those major schemes in towns which should be allowed to go ahead and those which could be deferred. A criterion might be where the buildings to be redeveloped are sound and good for another 20 years, and only the profits to be made from rebuilding have attracted the developers. The RIBA are believed to favour this view In the long term, by far the most promising of the Chancellor's remarks for the industry is that he has accepted the Plowden report's recommendations on the need for planning on a five-year basis in place of stop-and-go policies.

Looking to the future, there is no reason why the industry's new found confidence should be shaken by these events and, indeed, it is vital that the opportunity provided by the easing of the load on the industry should be taken to press ahead with training and re-equipping for the time when building is put back into top gear. This point was made clear by MR. PETER TRENCH, Director, NFBTE, whose comments, together with those of other organisations, on the Chancellor's proposals are reproduced on page 209. However, there is so much building work in the pipeline that the Government cannot expect to see the results of its policy for some time, and any impatience which led



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to sterner repressive measures would be full of danger for the building industry. The other important point for the Government to watch is that as soon (as all must hope) the Chancellor's policy shows signs of proving successful, and the economy begins to recover, the Government must give the all clear to the industry to go ahead as rapidly as possible. If this policy is followed there is every hope that the present economic crisis can be surmounted without the disastrous checks to the building industry's progress that have been a feature of the post-war years.

Exports and Living Standards

WHAT MADE CASSANDRA SO unloved of the Greeks was less that she prophesied woe as that she had the uncomfortable habit of proving right. Hers was never a pleasant role, and for this reason all proper-thinking members of the British public will find their hearts going out to MR. SELWYN LLOYD what time their own spirits droop. For Mr. Lloyd, as Chancellor of the Exchequer, has the unenviable job of bringing the national economy into balance and we, the British public, now know the parts for which, all unwillingly, we have been cast as principal supporting actors. Mr. Lloyd must understand economics —no less a person than PROFESSOR NORTHCOTE PARKINSON has said so—and the man in the street, though making no equal claim, is beginning to grasp the fact that though he finds the problem abstruse, the solution at least is clear: the gap between imports and exports must be closed. It is really as simple as that.

Most people know that British building contractors are active overseas—in the 12 months ended in March last they carried out work valued at £135m., a considerable achievement though the satisfaction is somewhat marred by the fact that the provisional value of new contracts obtained was £98m. (£131 m. in March 1960) and of work outstanding £100m. (£135m. in 1960). Nevertheless, the Export group of the constructional industry is, in fact, active and requires little prodding. Can the manufacturers do more to assist ? Some people may be surprised to learn that they help at all; if so, they should find of interest the latest statistics issued by the Ministry of Works. They appear on pages 217-8.

Quite frankly, we think that these industries could, as a whole, do better. Exporting is never easy, and in an age when service after sales has assumed high importance, can present real difficulties. But that is no reason why more manufacturers should not look seriously at the market for exports; indeed, if building in this country is to be cut back, such markets could assume an industrial as well as a national importance.

For these reasons, we should welcome a conference called by the MINISTER OF WORKS (to whom MR. MAUDLING delegates responsibility for materials export as well as for equipment which needs installation) at which he could outline to selected manufacturers both the problem and the help which the Government is equipped to give to those who are prepared to make personal survey of overseas markets with a view to entering them. This is a proposal which would, quite certainly, receive support from the technical Press in the building industry as well as the national papers, and could help in building up the somewhat sedate flow of building materials export into a more impressive stream.

Sir Richard Looks to the Future

THE VALEDICTORY PAMPHLET ('Eye to the Future,' published from Federal House, Clapham, SW4, price 6d.) with which SIR RICHARD COPPOCK bids an unofficial farewell to the building industry shows that the architect of the Operatives' Federation has not lost the position which he held for over 40 years—way out ahead of the general level of building union thought. His theme is in two parts—first, that casualisation of employment is probably the greatest problem facing the unions; the only remedy for this, he thinks, is a nationalised industry; his second theme is that if developments in the technical field are to be controlled to the benefit of the industry, and presumably of the nation also, employers and operatives must pool their brains in a common endeavour to act together with a common purpose.

It is difficult to believe that Sir Richard really believes in the case for public ownership of the industry. Even if it were held desirable, which is arguable in the extreme, public ownership would involve nationalisation also of all the principal materials and manufacturing sides of the industry, and this without guarantee that any greater success would attend the process than has to be recorded in the fields, to take but two examples, of transport and coal. If Sir Richard has a case here, he certainly does not develop it, and the reader is left with the thought that de-casualisation in an industry such as building could be bought only at a cost in money and efficiency that economically would be disastrous.

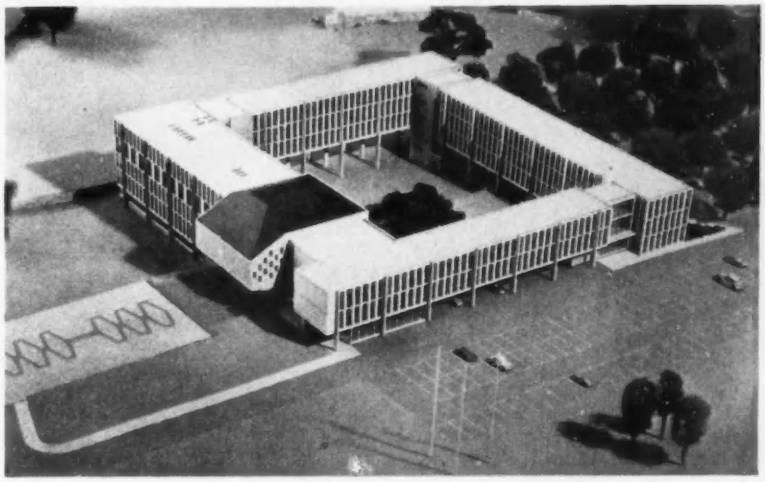
Those who wish to see stability of employment afforded to every man who wishes to make building his career (and such include people from all sides of the industry) will find much food for thought and for action in the later parts of the brochure. Sir Richard has never wanted for courage, and his references to the shortcomings of the building unions—particularly the way in which they drag their feet in matters such as apprenticeship, demarcation matters, new techniques (he points out that there have been almost no developments since the conference held by the Federation in 1959) and poor integration of the craft unions—will be welcomed, not because they confirm individual opinion that the operatives' unions have over the years concentrated on wage questions and politics to the almost virtual exclusion of technical advance but because, being an honest appraisal of the present situation, they set the stage for progress.

The brochure, and the opinions it sets forth, give the NFBTE its biggest opportunity in years to enter into a partnership with the operatives on all matters which concern the efficiency of building. Agreed there are some matters on which management and labour will differ, but most of the operatives' problems are equally those which face the employers. Joint concentration on these matters of common interest is what is needed, and we warmly endorse Sir Richard's proposal that the basis of the National Joint Council for the Building Industry should be broadened so that, instead of confining its deliberations to immediate working conditions it would extend them so as to give direction to the development of the industry generally. In this, his swansong, the Sage of Cranleigh has made his not least important contribution to the industry's future. It is fortunate that his successor, MR. WEAVER, and the operatives' President, MR. MILLS, are men capable of implementing the forward-looking policy he has outlined.

Notes of the Week

Architectural Education Affairs ; Honour Abroad ; The Lord's Cricket Table ; Design Opportunity, Birmingham

AS PART OF ITS POLICY of keeping the architectural profession aware of its work, the Board of Architectural Education convened last week an 'occasional meeting' of editors of the technical papers to outline progress on various of the educational fronts. Mr. Edward D. Mills, the Chairman of the Board, who presided, had some interesting things to report, notably that the forecast from the full-time schools of applications for the new session (when only those students with two 'A' level GCE passes will be accepted) is generally 'good.' The Board is in process of ascertaining actual numbers, and should shortly have information also on the effect of the new requirement on numbers of students applying to the 'listed' schools. This effect could, of course, be drastic and raises the question of access by the students; the Board's policy is to concentrate studentship in the fully 'recognised' establishments and it is in close liaison with the University Grants Committee with the aim to encourage the establishment of schools of architecture as a faculty of universities.



NEW COUNTY HALL AT TRURO.—*Perspective of proposed new county hall to be erected on a triangular site south of the city bounded on the north by Treyew-road, on the east by Penwethers-lane, and on the west by the main line railway. The proposals, based on a comprehensive report by the county architect, Mr. F. Kenneth Hicklin, ARIBA, in conjunction with Mr. G. A. Jellicoe, CBE, FRIBA, were adopted by the Cornwall CC on July 25. Cost is estimated at £811,000*

* * *

IN THE MATTER of establishment of a 'technician' class, the Board is treading water while awaiting the report of Professor Robert Matthew's committee which in turn awaits the results of the survey of architects' offices. This survey should be before the RIBA Council in October. Meanwhile Professor Denis Harper's experimental course in Manchester goes 'unrecognised' though this matters less since Harper is a member of the Board and is fully aware of what the official desiderata are likely to be.

Two conferences are shortly due. The first, to be held from August 16-17, will consider the problems of architectural schools in the developing countries, problems which must be intensified by the higher level in general education shortly to be required of students. The other, to be held in October, will consider post-graduate training in its various aspects. Professor Llewelyn Davies will chair this meeting which will admit by invitation only. Much of interest could come from both these conferences.

Honour Abroad

A SIGNAL HONOUR is paid to Hugh Wilson, the forward-looking architect-planner of Cumbernauld New Town, in the invitation issued to him by planning and industrial authorities in the Ruhr to enter a competition for planning a new town for 50,000 coal workers at Wulfen, near Essen. The intention of the promoters is to establish a town which, from the description, sounds to be very much like Cumbernauld in its intended segregation of pedestrians from traffic, and Mr. Wilson's invitation is significant evidence of the interest taken in Cumbernauld by Continental planners. Apart from Mr. Wilson and two other non-West German architects, Sven Markelius, and Professor Van den Broek (with whom Bakema is associated), the competition is limited to West German architects of whom six firms have been specially invited to put in designs for what is otherwise an open competition. Among the German firms invited one sees the name of the veteran architect-planner Ernst May, who has been busy since the war in East Africa.

The Lord's Cricket Table

OUR CRICKETING READERS will have learnt with relief that the square at Lord's cricket ground is not to be dug up—and they will be joined in this sentiment no doubt by the Lord's worm which was so amusingly interviewed by Mr. Gordon Tomalin, the building surveyor, in 'The Builder' a fortnight ago. No one seems to know precisely how the notorious ridge has developed for the playing area is not normally touched except for periodic 'ironing-out' by the groundsman using a long straight-edge and a mixture of sand and soil; the 'out of season' period is too short, it seems, to allow a proper binding-in of new turves. However, it is now thought that dressings may be applied successfully to reduce the small mounds which inevitably mature over the years on any ground.

Mr. Tomalin has been asked to get full data on the square for the guidance of the Committee and its experts, and following his report, which will be submitted in mid-September, a decision on the form of treatment will be taken. The job cannot be easy (few people know that the Lord's square tilts slightly in two planes, rather as though a matchbox were lifted by one corner) but no trouble is obviously being spared to get this famous piece of turf as right as is humanly possible.

Design Opportunity at Birmingham

OPPORTUNITY for an architect with outstanding design ability offers itself at Birmingham where Alwyn Sheppard Fidler, the City Architect, is looking for a senior housing architect to be responsible, under him, for the housing section, a department which is carrying out currently some £6m. worth of work annually. Architects with progressive ideas and good organising ability who have a real flair for design, layout and planning should have unusual scope in this forward-looking department. Details of the post (for which a salary of up to £2,785 is offered) are advertised in this issue.

Lillington-street Competition

THE FIRST FOUR winning designs in the competition will be on display at the City Hall, Charing Cross-road, WC2, for a month commencing Tuesday, August 8 from Mondays to Fridays, 9 a.m. to 6 p.m. About 1,000 people visited the exhibition of all the designs at Caxton Hall last week.

Poet's Corner

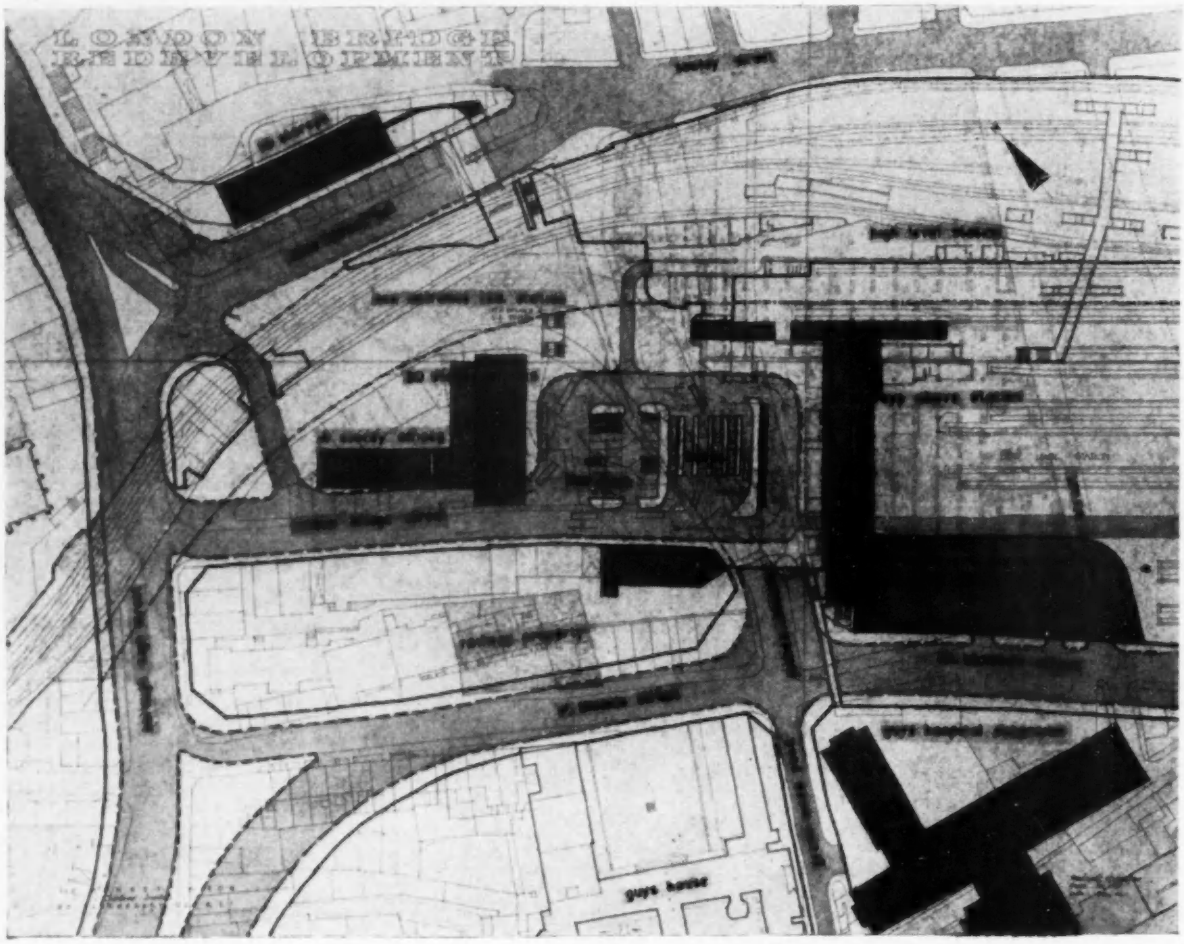
AN MP has criticised the aesthetic deficiences of our coinage.

Though the Mint should do its duty
And design attractive 'ready,'
We'd forgive a lack of beauty
If the value would keep steady.

ANON.

London Bridge Station Redevelopment

T. P. BENNETT AND SON, architects



plan at station concourse level

A SCHEME for redeveloping London Bridge Station has gone before the LCC for planning approval. One-way traffic circulation around the station and elevated walkways for pedestrians are proposed, one crossing St. Thomas-street into Guys Hospital and another bridging Duke Street Hill. The new concourse, placed above private car parking areas, has a large forecourt accommodating a bus depot and adequate taxi ranks.

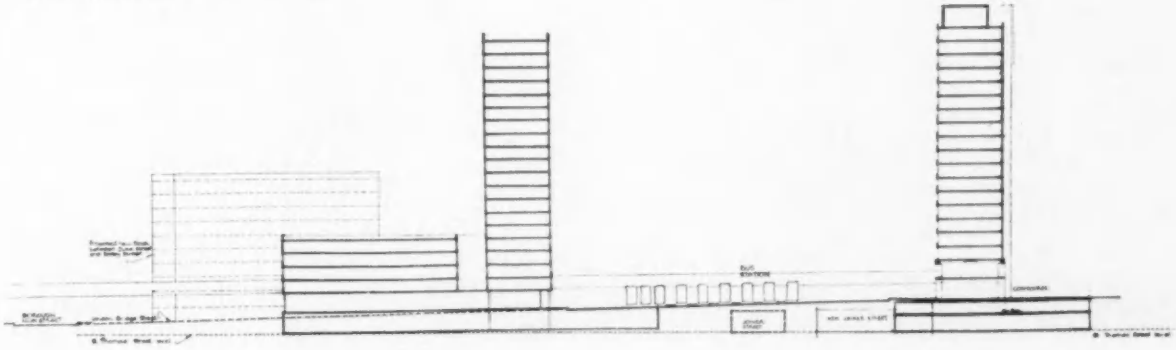
Above the concourse is a 17-storey office block rising 210 ft., with 4-storey wings containing shops at ground level.

Duke Street Hill, Tooley-street and Joiner-street would be widened as part of the £4m. development. The scheme links up with the City Corporation's proposals for widening London Bridge by 25 ft. to ease traffic congestion on the bridge. This improvement is estimated to cost in the region of £950,000.

Although traffic movement will be speeded up when these two schemes are completed, the approach roads to the station area are still likely to be congested. In this connection, redevelopment of King William-street and London Bridge Approach is expected to be carried out in the near future.

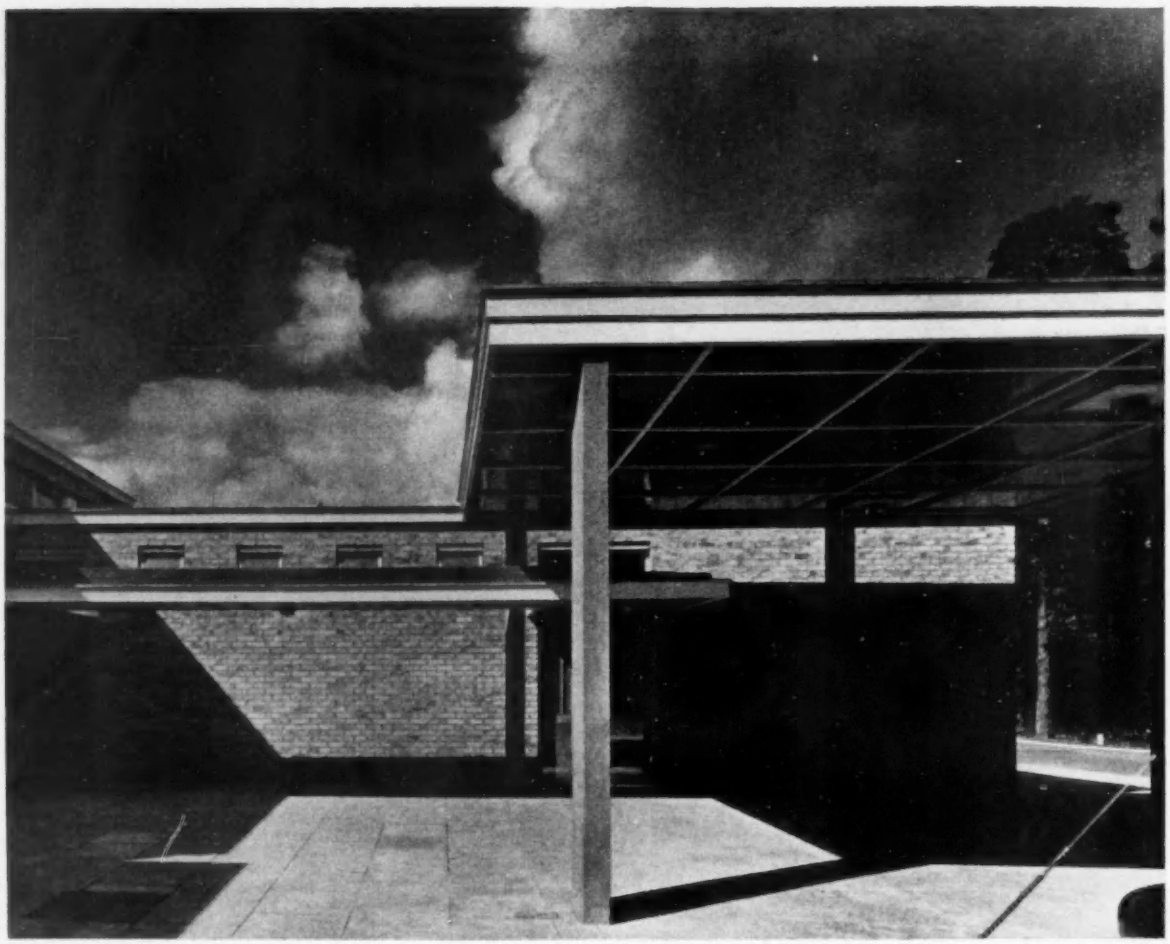
view from St. Thomas-street

site section, scale : 1 in. = 128 ft.



Heatherwood Hospital, Ascot

JOHN R. HARRIS, FRIBA, architect, in conjunction with
F. A. C. MAUNDER, FRIBA, AMTPI, regional architect
J. M. JONES & SONS LTD., general contractors



ambulance arrivals and casualty admission

THIS EXTENSION to Heatherwood Orthopædic Hospital for the North-West Metropolitan Regional Hospital Board, provides greater out-patient facilities and broadens the general surgical and medical department to serve the needs of Bracknell New Town. The hospital is run by Windsor Group Hospital Management Committee.

A new general entrance from the main road leads to a forecourt provided with a canopied ambulance bay. Separate entrances for out-patients and casualties lead into the vestibule immediately adjacent to the main waiting and reception hall, which has been planned to give calm and restful surroundings. A refreshment buffet is provided as an additional amenity.

The new accommodation includes five consulting rooms, a casualty department and minor operating theatre, twin theatres for major surgery, X-ray department, physical medicine department, and dental, pharmacy and pathology departments.

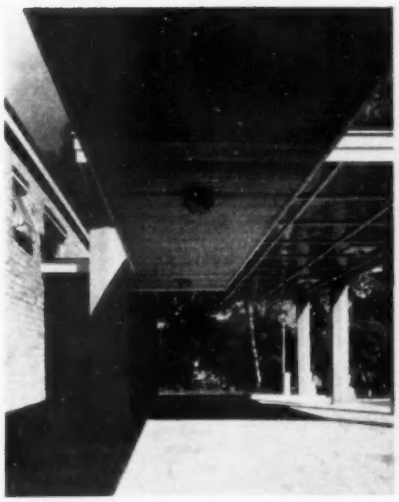
The out-patients', casualty and X-ray departments are single storey structures of load-bearing brickwork. The roof is of open web steel joints with woodwool insulation and built-up roofing with asbestos tile finish. Ceilings are generally of metal acoustic panels.

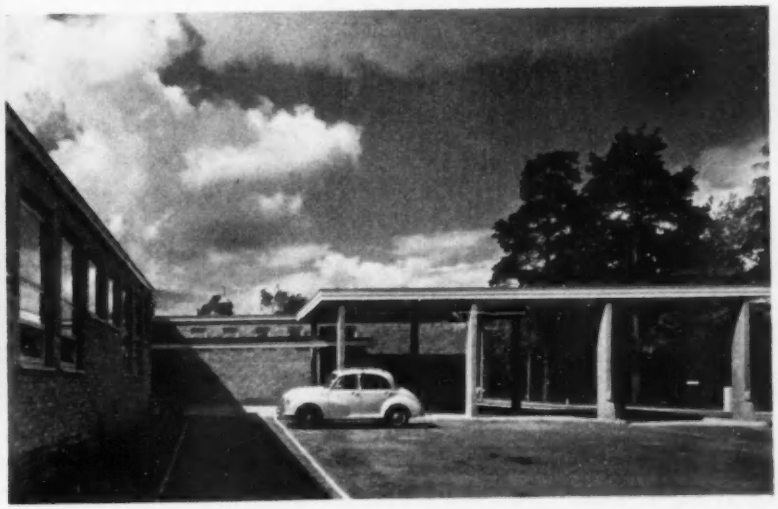
Heating is by hot water radiators. Plenum ventilation is provided for the minor theatre suite and X-ray department, and the twin theatre suite is fully air-conditioned, having automatic humidity and temperature control, the equipment for which is housed on the roof. A new calorifier house has been erected at the side of the theatre block. Double glazing is provided in the main theatre and consultation rooms to reduce outside noise, whilst the ceilings of the connecting corridors have been acoustically treated.

It has been found that the open web joists give economy and flexibility in planning, together with an almost continuous ceiling duct for services. The new operating theatre block is of reinforced concrete with a plant room immediately above at first floor level.

Decorative terrazzo flooring has been used at the main entrance and maple strip flooring in the waiting hall. Terrazzo and linoleum have been used elsewhere. Synchronous clocks are sited in the main areas of the unit and a public

canopied areas leading to casualty admission and outpatients' departments





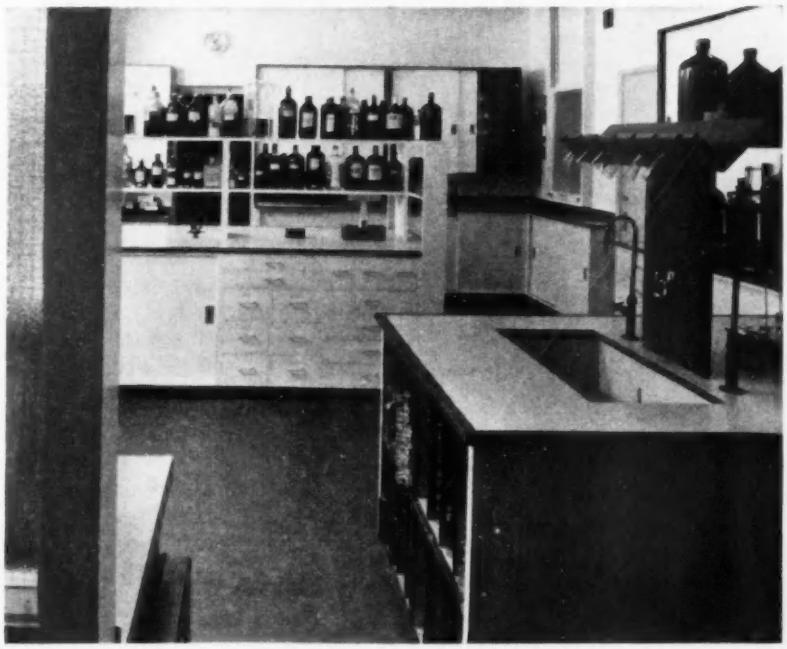
casualty department, examination and treatment

one of the twin operating theatres

sub-contractors & suppliers:

Electrical services: R. Langston-Jones Ltd.; *mechanical services:* Rosser & Russell Ltd.; *steel open web roof beams:* Sommerfields Ltd.; *pre-cast concrete floor units:* Concrete Ltd.; *metal windows & roof lights:* Mellowes & Co. Ltd.; *metal acoustic tile ceilings:* Burgess Products Co. Ltd.; *flush doors:* Jayanbee Joinery Ltd.; *tiling & terrazzo work:* Zanelli (London) Ltd.; *sanitary fittings:* Shanks Co. Ltd.; *built-up roofing & asbestos tiles:* The Ruberoid Co. Ltd.; *lino flooring:* The Lino Tile Co. Ltd.; *maple strip floor:* Stevens & Adams Ltd.; *theatre inset instrument cabinets & clothes lockers:* James Gibbons Ltd.; *lead-lined protective joinery:* Premise Engineering Co.; *X-ray equipment:* Watsons (Electro-Medical) Ltd.; *door furniture:* Comyn Ching & Co. (London) Ltd.; *café set:* The Crittall-Aquafont Group Ltd.; *department lettering & plaque:* Drakard & Humble Ltd., The Lettering Centre; *cubicle tracking:* Silent-Gliss Ltd.; *medical gases installation:* British Oxygen Co.; *suction lines:* Alpha-Laval Co. Ltd.; *sterilisers:* British Steriliser Co. Ltd.; *theatre control panels:* Technical Lights & Equipment Ltd.; *theatre lights:* Hanalux Lamps by Sierex Ltd.

waiting hall, outpatients' department



fitments in the dispensary, designed by the architect

Heatherwood Hospital

telephone booth is provided in the entrance vestibule.

The equipment installed throughout the new extensions is of the most modern design and includes electronic controls for the air-conditioning plant; a piped oxygen and nitrous oxide distribution system, and a vacuum pipeline installation.

The new building is designed around an existing theatre and treatment block. It was decided to retain the use of this operating theatre and the physiotherapy department, and this decision dictated the planning solution to some degree.

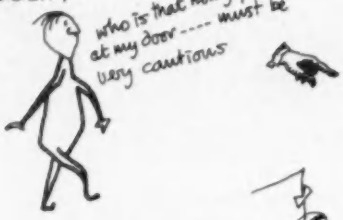
Structural engineers: Andrews, Kent & Stone; quantity surveyors: Young & Brown; heating, ventilating and electrical consultants: Hoare, Lea & Partners in conjunction with J. Galloway, MIME, MIEE, MIHVE, regional engineer.

Once Upon a Time . . . .

BY JOHN RAE

ONCE UPON A TIME THERE WERE TWO **ARCHITECTS**

ONE WAS WORRIED BY THE RESPONSIBILITY



AND THE OTHER WAS WORRIED BY A LACK OF INSPIRATION

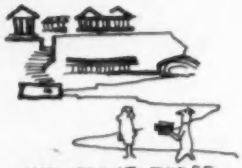
AND HE TOOK UP EVENING TEACHING TO HELP OUT HIS SMALL PRIVATE PRACTICE

THE OTHER WAS GIVEN DIFFERENT ADVICE

SO HE MARRIED A MODEL WHO WAS ALSO

THE DAUGHTER OF A BRADFORD **MILLIONAIRE**

LATER HE MARRIED THE DAUGHTER OF AN IMPECUNIOUS **EARL**



AND SPENT THREE WEEKS IN GREECE AND

WROTE BOOK 'KNOW YOUR ARCHITECT BY HIS NORTH POINT'... SCURRILOUS... SUCCESSFUL... ...IMMEDIATELY BECAME

GUEST EDITOR TO AN ARCH. JOURNAL WROTE CRITICAL ANALYSIS WITH DISTURBING EASE

THE ARTICLE HE LATER WROTE FOR A HOLIDAY MAGAZINE MADE HIM 15 gns

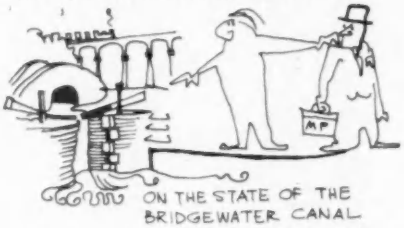
SOON BECAME MASTER OF POPULAR QUIZ GAME 'SPOT THE STYLE'. TOURED MIDDLE EAST UNDER U.N. AUSPICES & LECTURED IN STATES UNDER ABLE MANAGEMENT. WROTE BOOK ON ENGLISH SUBURBIA

HE ALSO BECAME SENIOR ASSISTANT IN A BLOOMSBURY OFFICE... CHANCE OF PROMOTION... WHICH LATER CAME ON RETIREMENT OF AGED PRINCIPAL... TOOK INTEREST IN PROFESSIONAL BODY...

ELECTED TO **COUNCIL**

ON RETURN BECAME EDITOR OF EUROPEAN EDITION OF AMERICAN GLOSSY ON HOMES & FASHION

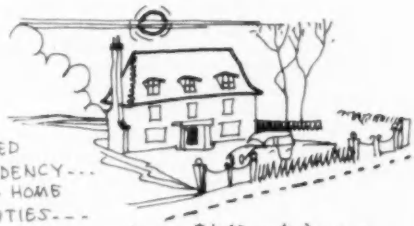
THIS ARCHITECT NOW BECAME AN AUTHORITY ON (19) ENGINEERING, & HAD QUESTION RAISED IN THE HOUSE



ON THE STATE OF THE BRIDGEWATER CANAL

WHERE UPON HE BECAME PRESIDENT OF HIS PROFESSIONAL BODY AND

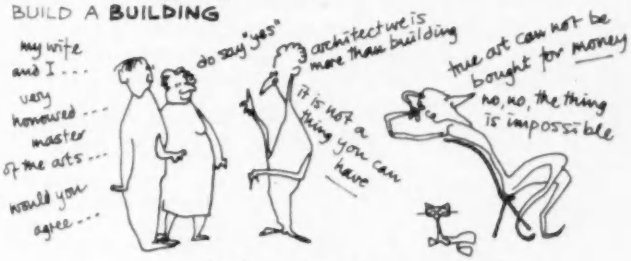
TOURED PROVINCES WITH PHOTOGRAPHS IN LOCAL PRESS



RETIRED PRESIDENCY---
LIVED HOME COUNTIES---
KNIGHTED --- an honour I believe I deserve

BUILT HIS MAGNUM OPUS ON IMPORTANT SITE IN LONDON --- BECAME VICTIM OF ANTI-UGLY ACTION which I believe to be a compliment

WHEREAS THE OTHER ARCHITECT WAS APPROACHED TO BUILD A **BUILDING**



HE RESISTED THE TEMPTATION

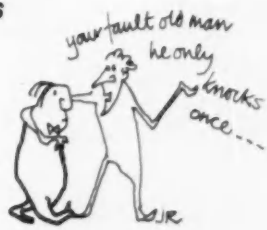
& INSTEAD BECAME A VISITING LECTURER TO A NEW UNIVERSITY COLLEGE IN INDIA --- DELIGHTED IN POSING AS AN ECCENTRIC, PROVIDED PRESS PHOTOGRAPHERS CLOSE AT HAND

DESIGNED FILM SETS FOR HOLLYWOOD EPIC "THE MIGHTY WREN"

BOUGHT HOUSE IN BERMUDA

AWARDED OSCAR FOR FILM SETS
JUDGED MISS UNIVERSE COMPETITION

NOW SO FAR THESE TWO **ARCHITECTS** HAD NEVER MET EACH OTHER EXCEPT FACE TO FACE — FINALLY, AT THE **IUA CONGRESS**



Letters to the Editor

Furniture and Colour in Schools ; Industry and Common Market ; Danger of Untested Techniques ; Inigo Jones and Portland Stone

SIR,—The review in your leading article of July 28 of the Ministry of Education Report on 'Schools in the USA' drew attention to an excellent publication, but there are two further points which were not covered by the review and which might be mentioned.

The first concerns furniture. It would seem that in the USA they are a long way ahead of us in the provision of well-designed furniture and equipment, mostly on a modular basis to anthropometric standards, produced by a keen and highly competitive industry. Our own firms could well learn a thing or two from this section of the report. There is a very close integration between the furniture and the school buildings themselves, so allowing a greater effective use of space.

The second point concerns colour. It appears that American architects are still under the twin influences of the Arts and Crafts movement—with its rather dingy range of colours which do not bring out the best in natural materials—and of the lighting engineer, whose dictates on reflection factors do not necessarily lead to quality. It would seem we are fortunate in that we have that useful tool BS 2660, the equivalent of which would be very desirable in the USA.

JOHN RATCLIFF [OBE, FRIBA, AMTPI],
Howard V. Lobb & Partners,
20 Gower-street, WC1.

The Industry and the Common Market

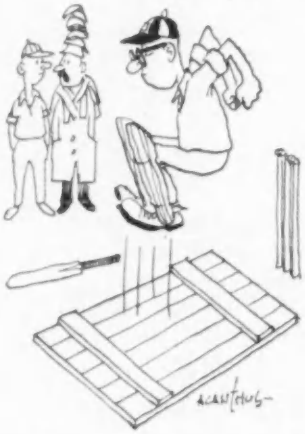
SIR,—On July 31 the Prime Minister told Parliament of the Government's plans in regard to the Common Market. How will the Common Market act upon the architectural profession over the first three to five years of Britain becoming a member? In my view, architects have got to get themselves busy learning French, German and Italian. I shall find myself in knots.

Language apart, our entry into the Common Market will mean an influx of further foreign labour, technologists and architects, and the powers that ARCUK now exercise will become reduced and the Council could become foreign.

Fees and wages will have to be revised to prevent a stampede of craftsmen and others from one State to another where work and wages are found to be better. Italy is bent and broke, France is up to her neck in debt, the rich West Germany has limited space, therefore, Britons will be confined at home to watch foreigners coming in to assist us.

How shall we like this?

W. MACDONALD,
5 Hurst-road, Eastbourne.



'If you've got a problem of a ridge or anything else—call in a surveyor!'

Dangers of Untested Techniques

SIR,—The colossal amount of money to be spent on the repair of the Quarry Hill flats ('The Builder' of July 28) raises the question of the wisdom of adopting constructional systems for large-scale work that have not behind them 20 or 30 years of tested experience. I was working in Leeds from 1934 to 1940 and visited these flats during erection. I was astounded to see the method adopted, with external claddings being made on the site and hung on steelwork which was the acmé of lightness. Even at that time I wondered if the buildings would last as long as some of the Peabody Trust flats I worked on 60 years ago.

Does it not now become obvious, if public and ratepayers' money is to be spent on such schemes, that constructional techniques, where they differ from accepted methods, should go before a panel of architects and engineers who would be capable of estimating whether the system will stand the test of time and result in a building which will not hang round the ratepayers' necks like a financial millstone? I suggest that it requires more than a municipal council to decide the pros and cons of the length of life of a building. Appearance is one thing; stability and duration are another, and need the expert mind to adjudicate upon them.

G. W. HARRIS [MICW],
43 Leopold-road, NW10.

Inigo Jones and Portland Stone

SIR,—While the achievements of Inigo Jones are being recorded it is also worth remembering that in the Banqueting House Jones pioneered the use of Portland stone in London. This example was soon followed by Wren, and it is amusing to us today that Sir Christopher was able to obtain a temporary monopoly of the supply of stone during the building of St. Paul's, for fear that the quarries might run out. This monopoly also covered the period of nearly all Wren's 53 City churches.

It must surely have been accidental that Portland stone was found to have its special weathering qualities in urban atmospheres. 17th- and 18th-century masons did not study such things as the durability of stone from different quarries, as is sadly shown by the plight of Renaissance Oxford.

ROGER COOMBS,
The Stone Firms Ltd.,
Abbey-yard, Bath.

Sir Guy Dawber, RA

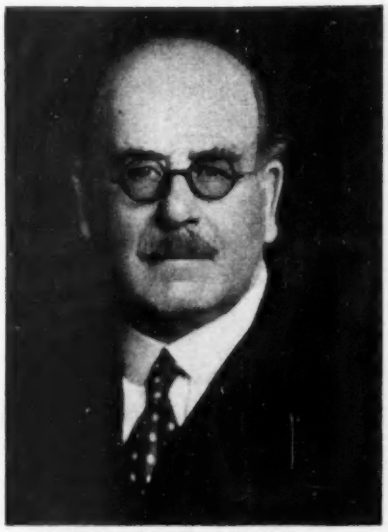
Centenary of an Edwardian Country House Architect

NOTHING about Sir Guy Dawber was out of context; he looked like a country gentleman, and he designed houses that proved the perfect settings for the country gentlemen of his day. Born one hundred years ago, on August 3, 1861, at King's Lynn, he began his architectural career with four years in the offices of William Adams of that town, after which he spent a brief period as Sir Thomas Deane's assistant in Dublin. Political troubles in Ireland put an end to his study of Georgian architecture and after only one year he returned to England, where he joined the office of Sir Ernest George, RA.

This specialist in elegant country house design and chic West End residences was noted for a number of successful architects trained in his office. While studying with him, Dawber attended evening classes at the Royal Academy Schools. During this period prolific reading weakened his eyesight and, in 1887, George sought to lessen the strain by sending his pupil to Batsford in Gloucestershire to act as Clerk of Works for Batsford Park, a country mansion he was building for Mr. Freeman-Mitford, afterwards the first Lord Redesdale. The builders were Messrs. George and Peto.

The little-known glories of Cotswold architecture so enraptured Dawber that he decided to set up a practice for himself at Bourton-on-the-Hill. Starting with small commissions, he had, by 1891, improved his practice so considerably that he was able to open an office in London. After that he was frequently commissioned to design large country houses, banks and other important buildings. Dawber's success stemmed from a thorough knowledge of materials and the craftsmen who handled them, plus a deep feeling for tradition. His delightful houses blended so beautifully with their settings that they became an integral part of the landscape.

Sir Guy Dawber's principal urban buildings are the Liverpool Insurance building in Pall Mall and the Foord Almshouses at Rochester. His country houses were legion: chief among them were Burdocks, Fairford, Nether Swell Manor, Bibsworth Manor and Eynesford Park, all in Gloucestershire; Heath Lodge, Headley, Dutton Homestall and Tuesley Court in Surrey; Stowell Hill in Somerset; Caldry Manor in Cheshire; Conkwell Grange, Purton Manor and Hamptworth



Sir Guy Dawber, 1861—1938

Lodge in Wiltshire; Ashley Chase in Dorset; and Wiverton Hall in Norfolk. He designed many country banks.

Dawber was a very considerable water-colourist and in 1927, in recognition of this and more particularly the value of his domestic architecture, he was elected an Associate of the Royal Academy. He became a Royal Academician in 1935 and was knighted a year later. Earlier, in 1904, he had been president of the Architectural Association; in 1925 he became president of the Royal Institute of British Architects; and in 1928 he became the first architect who had made his name in domestic architecture to receive the Royal Gold Medal for Architecture.

Chief among the characteristics of this Edwardian architect was that he always kept his clients' interests foremost in his mind. The infinite pains he took and the patience he displayed in attention to the smallest detail was a revelation to his assistants and contemporaries. He hated sham and would never countenance it in any of his buildings. Dawber lived as he worked, for beauty and simplicity in everything. He surrounded himself in his office and at his home with beautiful furniture and pictures collected on his journeys to his jobs and on his holidays or given to him by numerous friends.

He gave himself freely to charitable and other fields of activity, being for many years honorary treasurer of the Artists' General Benevolent Institution. He helped to establish the Council for the Preservation of Rural England and became its vice-president and chairman. At the time of his death, in London on April 24, 1938, he was about to engage in assessing an architectural competition for a crematorium at Oxford. A painting of him by Orpen hangs in the RIBA at 66 Portland-place, London, W.

FRANCES COLLINGWOOD

IUA Town Planning Commission

Recent Meetings at the RIBA

THE TOWN PLANNING COMMISSION of the International Union of Architects met in London on the occasion of the 6th Congress of the Union. It held two meetings at the RIBA on July 7 and 8 under the chairmanship of M. Cornelius Van Eesteren (Holland). Fifteen full members were present representing thirteen countries. Among these were the Secretary, M. Arnold Hoechel (Switzerland) and the delegate from the executive committee of the IUA, M. Georges Candilis. Madame Van Peborgh was present as liaison representative with the Secretary General of the Union.

The agenda of the meeting covered a report of the sessions of the Commission held in Sweden in September 1960 and discussions on the following:

1. A report by Mr. Chkvarikov (USSR) on the question of town planning and the industrialisation of architecture.

2. The preparation of an international glossary of town planning terms, for which M. Calsat (France) is responsible in co-operation with the International Federation for Housing and Town Planning.

3. An international bibliography of town planning publications.

4. An examination of the definition of residential density in different countries in respect of which reports had been received from the Russian, Bulgarian, Polish, West German and United Kingdom Sections. These will be discussed further at the next meeting of the Commission which it is proposed to hold in Athens in September 1962.

5. The professional organisation of town planners: It was decided that members of the Union and others who practise, teach or make a substantial contribution towards the art and science of town planning should from time to time have an opportunity to meet to exchange information and discuss their common problems on a wider basis than is possible in the Commission, and the Commission obtained, during the course of their meeting, approval in principle of the executive committee to a meeting of all architect-planners attending the next Congress in Cuba in 1963, so that a general discussion could be held.

6. The report of Mr. Arthur Ling on the subject of car parking, under the title 'Where can I park my car?' had been translated into French and was to be circulated to all national sections of the Union for observations prior to its eventual publication.

7. Several subjects for further study were discussed and it was decided that one of the main matters to be dealt with during the next two years would be the particular town planning problems arising out of the theme of the next Congress, namely 'The architecture of developing countries.'

Housing, Building and Town Planning

European Governments Agree on Lines of Co-operation

TWENTY-SEVEN GOVERNMENTS who took part in a meeting of the housing committee of the United Nations Economic Commission for Europe, which was held in Geneva from June 12 to 14, agreed on the main lines of future co-operation in the fields of housing, building and town planning.

In the field of town planning the government representatives put the main stress on examining problems of urban renewal, the cost and planning of new residential areas, rural housing and urban building land policies. A substantial amount of effort will continue to be made to promote the general trends towards industrialisation of house-building with a view to increasing productivity and raising quality. The economic aspects of housing policy will continue to feature as an important part of the committee's future programme of work.

In addition, the committee unanimously agreed to examine housing problems in the developing countries. In this connection the series of seminars for the benefit of the countries in the course of industrialisation will be continued. The first will be held in October, 1961, in Jugoslavia and will examine the problems which arise in the preparation of housing surveys and the formulation of housing programmes. The next will be concerned with the mobilisation of physical and technical resources for the implementation of housing programmes. The committee also unanimously agreed to make a substantial contribution to the work of the United Nations and the specialised agencies on housing problems of the developing countries in other parts of the world.

Housing Trends Examined

As has been the custom in the past, the committee held its annual debate on housing trends, progress and policies in Europe in the preceding year. The discussion was based on a survey prepared by the secretariat which examined the trends in house construction, the availability of resources, building costs and prices, changes in housing policy, and the present housing situation and future prospects. This report will be revised by the secretariat in the light of the committee's debate and published for general circulation later in the year.

The committee established a six-year programme of group visits, which would follow its spring session every year, to individual countries. The purpose of such group visits is to enable the committee to observe on the spot the solution of various problems discussed at their meetings and to share experience between specialists. It will be recalled that in the past such group visits have taken place to the leading countries both in eastern and western Europe. At the termination of the committee the participants went for a ten-day study tour to the Federal Republic of Germany. The group visit in June, 1962, will be made to Ireland and the United Kingdom.

Fermanagh County Offices Enniskillen

HARRY GIBBERD, ARIBA, architect

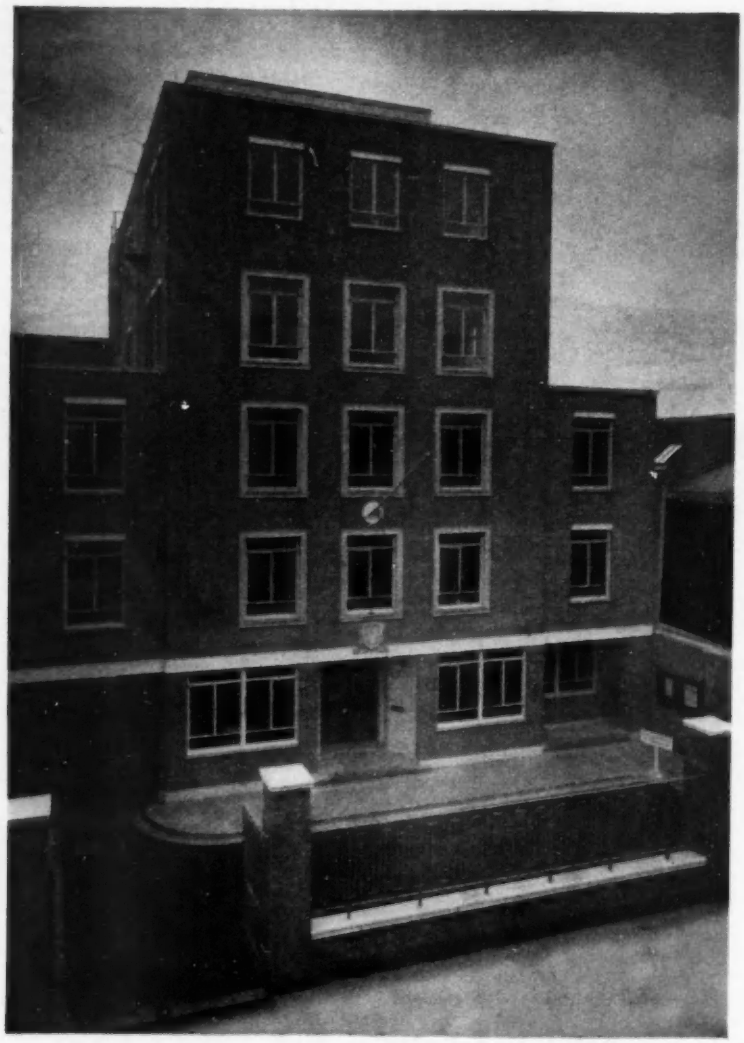
A. & J. HUMPHREYS, general contractors

THESE COUNTY OFFICES in Northern Ireland were the subject of an architectural competition in 1956, and have been built generally according to the winning design.

The building is flanked by the Court House and other property, and has a narrow frontage to East Bridge-street, with an uninterrupted view at the rear.

Restricted daylighting necessitated using most of the ground floor for records and storage, with offices only along the frontage. First floor is occupied by the Education Department. Second floor contains the Secretary's department. The Council Suite is at third floor, and the Education Architect's department at fourth floor.

Holes were excavated for stanchion bases and piers through 2 ft. of made ground, followed by 3 ft. of sleech, a glacial deposit like plasticine, and hard glacial drumlin over the whole area of the building. The structure is steel framed with precast beam suspended floors. Walls are 11 in., with local Coalisland facings and concrete block inner leaf. String course and copings are of cast Portland stone. Cills are of Westmorland slate. Partitions are semi-glazed timber, with ply facings on soft board for the solid panels. Heating is by oil fired boilers and low pressure hot water. Contract cost: £55,623. Quantity surveyors: McCarthy & Lilburn; clerk of works: R. Armstrong.

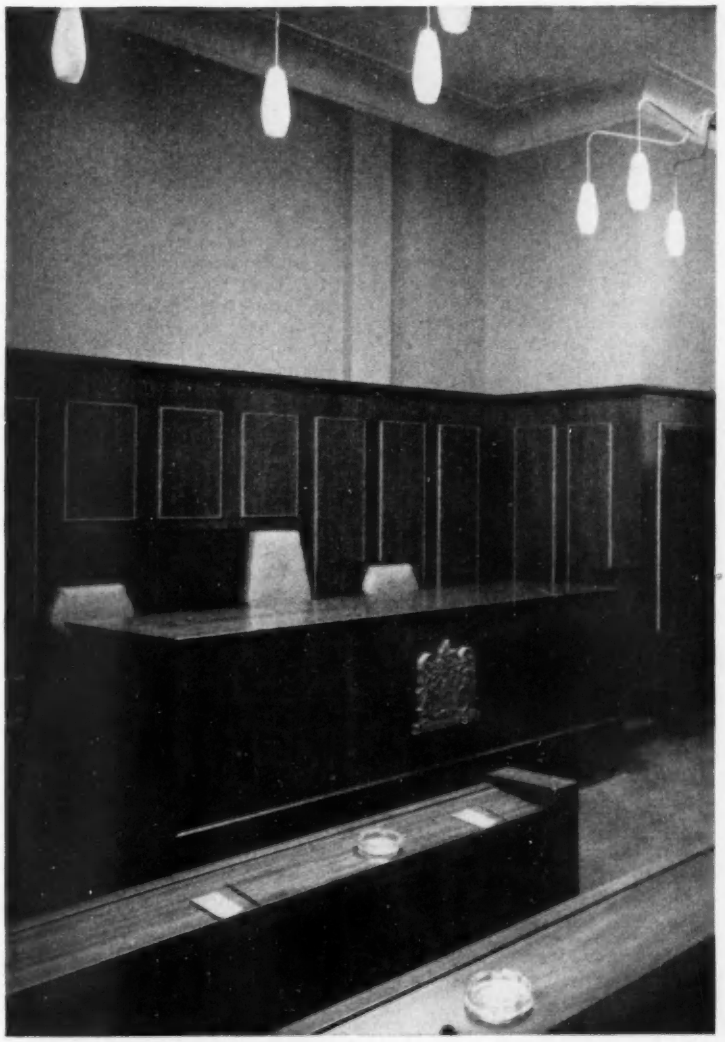


main frontage and forecourt

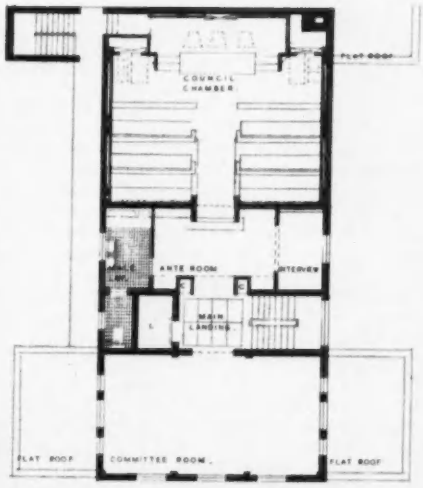
committee room

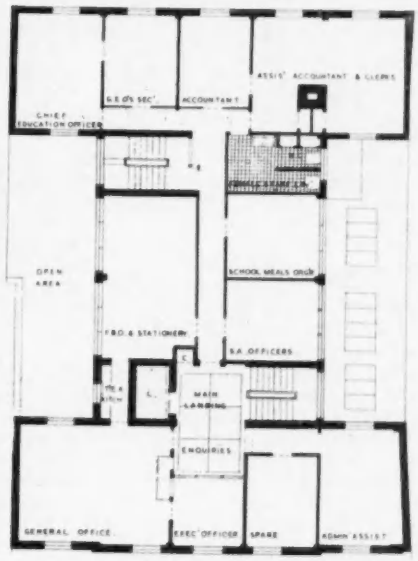
sub-contractors & suppliers:

Structural steelwork: McMillan & Co.; *precast floor beams:* Macrete Ltd.; *heating installation:* Vaughan Heating Co. Ltd.; *electrical installation:* S. Reddock; *lift installation:* The Express Lift Co. Ltd.; *metal windows and lantern lights:* Hoskins & Sewell Ltd.; *suspended ceilings:* The Expanded Metal Lathe & Co. Ltd.; *specialist joinery:* John Sheridan & Sons Ltd., A. & J. Humphreys; *built-up roofing:* Vulcanite Ltd.; *ironmongery:* J. E. Ball Ltd.; *sanitary goods:* The Leeds Fireclay Co. Ltd.; *paint:* Blundell, Spence & Co. Ltd.; *gates:* A. E. Shaw Ltd.; *flag pole:* W. Furse & Co. Ltd.; *shield of arms and foundation stone:* Carved by A. J. Poole, N.D.D.; *stone dressings:* Concrete Industries Ltd.; *slate cills:* Kirkstone; *terrazzo flooring:* Apuana Marbel Industries Ltd.; *decorative glass:* Pearce & Cutler Ltd.; *p.v.c. and wood block floor:* MacDougal & Co. Ltd.; *special lighting fittings:* Associated Electrical Industries Ltd.



council chamber towards dais

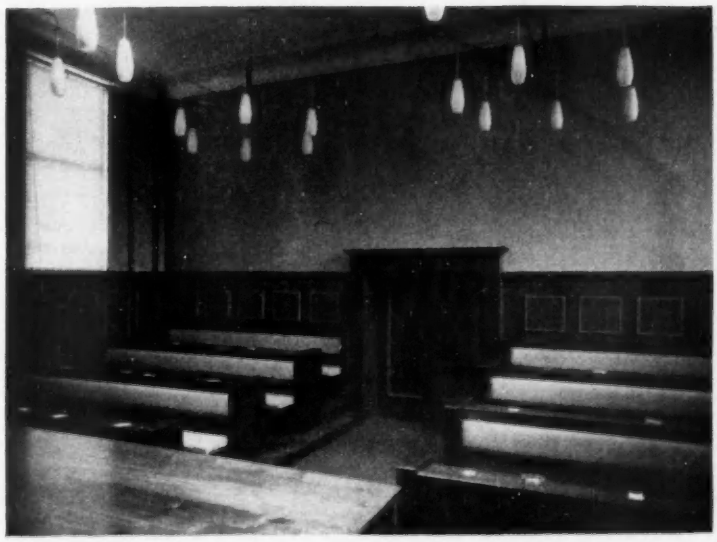


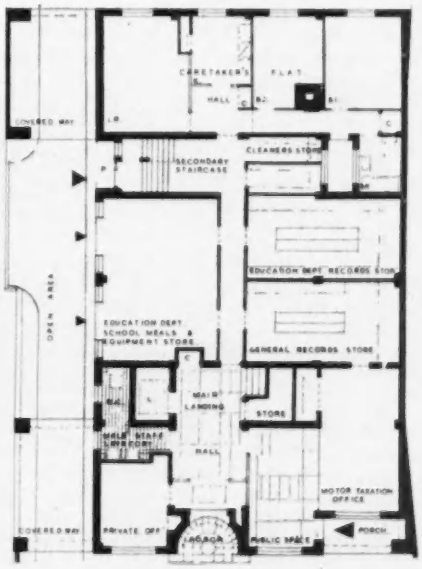


FIRST FLOOR & THIRD FLOOR

GROUND FLOOR, Scale: 1 in. = 24 ft.

rear of council chamber





More Everyday Things

BY ARTHUR W. KENYON, CBE, FRIBA

53. Tables

IT WOULD APPEAR that the English have always fed from tables and have never squatted on the floor as in some Eastern countries. The early trencher table, probably called by that name because of the wooden trenchers laid out for food, was a solid affair with a top made out of 2-in. or 3-in. solid oak, or elm planks in whatever width and length the wood could be procured. The massive wooden frame consisted of solid square legs and rails put together with wooden dowels. No wonder we still see many of these about, for they were made to be almost indestructible.

The carpenters in the early days usually worked with the adze and they got really amazing results from this seemingly primitive tool and produced surfaces as smooth as if done with a plane.

Even the trencher table became more refined and was elaborated as time went on, for the good craftsman is never content to stand still: he is always thinking out new ideas and he gave us all manner of varieties of the table leg from large, bold, Cromwellian type to delicate pedestals.

As homes became less primitive, and craftsmanship became more refined, communal dining gave way to a more segregated form of dining in smaller rooms, with the result that the table became smaller and more ingenious in its design. The gate-legged table with flaps was perhaps the most complicated of all, but at the same time it was very satisfactory and practical in its design—so much so, that it has been handed down to us and is still popular in many present-day homes.

There were few dining tables which were not made in such a way that they could be extended for ceremonial occasions, either by flaps or by separate sections. These tables probably reached their peak of elegance in the Regency period with the mahogany top with inlaid edges, all very beautifully worked, sometimes with a brass strip. There were graceful pedestals with clawed feet, tipped at the toe with brass castings.

The sofa table was a delightful variation of the dining table in miniature, and the master craftsmen took a special interest in this design, as they did in all delicate things. It was very popular in early 19th century parlours being intended to stand in front of a sofa, as its name implies, and was used by ladies for reading and writing, but in small households it also proved very useful as a dining table.

The modern table appears to me to be taking on a more primitive look again, in the sense that it is designed to be purely functional. It often has a heavy, coffin-shaped top in teak—a wood which, to my eye, is neither precious nor beautiful. I associate teak with sink tops and laboratory benches. The legs of so many modern tables are of the sort you can buy in the do-it-yourself shop in any length you fancy, often of the turned beech variety with black tips and finished with or without a brass tip according to taste and price.

There must be a complete social history to be learned from the design of tables, and I have no doubt that the modern version will take its rightful place in the history and tell its own story to posterity.

Humanising Hospital Buildings

Architects' Advice to BMA

MR. W. J. JOBSON, FRIBA, architect to the Oxford Regional Hospital Board, told a meeting of the British Medical Association in Sheffield City Hall, on July 21, how modern building methods could be used to provide the sense of friendship and give reassurance to patients.

He said that there were three main points a hospital architect should recognise: the clinical use of the building; the supporting services, and the atmosphere.

Future hospital design would have to consider the feelings of people and the psychological effect of the buildings on patients and staff. 'To plan this and produce this type of building, one must understand some of the effects of closed small spaces, vistas, quietness.'

Mr. Jobson illustrated the theme by the Princess Margaret General Hospital, Swindon, ('The Builder, Feb. 12, 1960). There, the ceilings had been deliberately kept low so that people did not feel dwarfed when they went in. There was also a courtyard where they could look out and see grass and fishponds.

He said, 'The whole atmosphere is of a friendly place.' A water garden had been incorporated, as was often done in Japanese hospitals, to take the patient's mind off his operation, pre-operation waiting or treatment. The hospital did not have an 'enclosed' atmosphere, because it was arranged so that patients could look back and see the way they had come.

Mr. Jobson said waiting rooms had been kept small because it was discovered large spaces tended to frighten people. Contemporary colours were used to add to the friendly atmosphere.

He spoke of the value of the use of natural stone. It was psychologically important to use natural materials like stone and wood, as these had a more pleasing effect than the harder steel.

Appointment

MR. B. H. PATTINSON, engineer and surveyor, Beeston and Stapleford UDC, has been appointed borough engineer and surveyor at Reigate to succeed Mr. G. G. Sanderson, who is retiring.

Historic Buildings

Further List of Grants

THE MINISTER OF WORKS has announced the award of 20 grants for the repair of buildings on the recommendation of the Historic Buildings Councils for England and Scotland. There are none from the Council for Wales in this quarter's list.

Of special interest in this list are the grants made to eight Cambridge colleges; namely, Downing, Magdalene, Pembroke, Queens', St. Catharine's, St. John's, Sidney Sussex and Trinity Hall. The grants will be used by the colleges towards the cost of repairing buildings of outstanding architectural or historical importance. The total sum approved by the Minister for this purpose amounts to £47,500, to be paid over 10 years. The colleges are normally open to the public.

Most of the grants in the current list are for town buildings. Two are in use as commercial premises, one at Bristol and the other at Ipswich. Another, at Romsey, known as King John's House, has scratched on its walls medieval drawings associated with King Edward the First's visit to the Hampshire abbey in the year 1306.

Of the remaining English properties which receive grants for the first time, there is one at Clandon in Surrey that has the distinction of being the first place to be beautified by the work of Adam.

In Scotland grants are made for Blair Castle, one of the country's great show places, and to help preserve a building in a group of considerable charm at Musselburgh. The buildings to receive grants are:

ENGLAND

Staunton Harold Hall, Leicestershire; The Ancient House, Butter Market, Ipswich, Suffolk; The Deanery Tower, Hadleigh, Suffolk; Cambridge Colleges: Downing, Magdalene, Pembroke, Queens', St. Catharine's, St. John's, Sidney Sussex, Trinity Hall; Uppark, South Harting, Sussex; Farnham Castle, Surrey; Hatchlands, Clandon, Surrey; King John's House, Romsey, Hampshire; Tithe Barn at Great Coxwell, Berkshire; The Old Manor House, Axbridge, Somerset; Cooper's Hall, King-street, Bristol.

SCOTLAND

7 High-street, Musselburgh, Midlothian; Blair Castle, Perthshire.

News of the Week

Fine Art Commission Appointments

THE QUEEN has approved the reappointment of Mr. G. A. Jellicoe, FRIBA, as a member of the Royal Fine Art Commission. Professor R. Llewelyn Davies, FRIBA, and Sir Edward Playfair have been appointed members of the commission in succession to Mr. Louis de Soissons, FRIBA, and Sir Arthur Richmond, whose terms of office expired this week.

County Authorities' Consortium

HAMPSHIRE COUNTY COUNCIL is to become a full member of a new consortium of county authorities which is being set up under the title of SCOLA (Second Consortium of Local Authorities). This new consortium is proposing to adapt some of the features of 'CLASP' and hopes similarly to make savings by bulk purchase of components. It aims, however, to produce a more flexible system in which brickwork and finishes associated with the county may be used where advantageous. The SCOLA system will include the results of experimental work carried out by and in Hampshire in the field of heating and electrical installation.

Meanwhile the proposal is to erect the first SCOLA school in Hampshire—a two form entry junior and infants—next year, and probably to duplicate that school in the same year's programme. If successful, the aim would be to include a considerable number of such schools in Hampshire's building programme for 1963-4.

THE NAMEBOARD *introduced recently by the Faculty of Architects and Surveyors for the use of its members. It is 32 in. by 22 in. in cream and blue—the faculty colours—with the coat of arms in gold, cream and blue*

Devonshire Club Rebuilding

A PLANNING APPLICATION has been lodged with the LCC for the erection on a site at 50 St. James's-street and 4 and 5 Arlington-street of a new building which, apart from premises for the Devonshire Club, would include shops, showrooms and offices. The design is by Messrs. Louis de Soissons, Peacock, Hodges and Robertson. The present club premises are of some historical interest, the main building being erected in 1827 and the Arlington-street houses much earlier during the first half of the eighteenth century. All three buildings are on the Minister of Housing and Local Government's supplementary list of houses of historic and architectural interest.

THEATRE ROYAL, ST. HELENS.—*An almost complete reconstruction of the Theatre Royal at St. Helens is being undertaken by Pilkington Brothers Ltd. The proposals are based on a report by Mr. Bryan Westwood, FRIBA, whose firm, Messrs. Bryan and Norman Westwood & Partners, is in charge of the work in liaison with the glass company's own central engineering and planning department. The first phase, repairs to the roof and structure generally, have already been completed. The second phase includes alterations to dressing rooms, renovation and equipping of the stage, and complete gutting of the auditorium. A feature of the new theatre, which is to cost slightly more than £100,000, is a glass wall running the full height of the building on its Corporation-street frontage. The builders are Holland & Hannen and Cubbitts (North West) Ltd., and the quantity surveyors, Messrs. J. Youden Briggs*

Deputy City Architect, Leeds

MR. E. W. STANLEY, BA (HONS ARCH), ARIBA, has been appointed deputy city architect at Leeds under the city architect, Mr. J. R. Sheridan Shedden, FRIBA.

RIBA and RICS at Golf

IN THEIR ANNUAL MATCH played at Worplesdon on July 18, the golfing societies of the RIBA and RICS drew with 10½ points each. The architects had a lead of three points in the singles (where R. W. J. Challis halved with R. G. Scott) but the Surveyors won five of the seven foursomes in the afternoon. Both societies fielded their strongest sides and the result was in doubt until the end.

Hawksmoor Tercentenary

THREE HUNDRED YEARS ago, in the year in which Wren was appointed Savilian Professor of Astronomy at Oxford, Nicholas Hawksmoor, the son of a farmer, was born at Tuxford, in Nottinghamshire. The story of his rise from obscurity to become Wren's 'scholar and domestic clerk' and afterwards the outstanding architectural genius of his age, is well told in an article on 'The Baroque Age of Hawksmoor,' contributed by Tudor Edwards to the July number of 'History Today.' Besides a portrait bust of Hawksmoor the article includes several photographic illustrations of his more notable works.

Housing Development, Guernsey

A WELL-KNOWN GUERNSEY landmark, Fort George, which dominates the sea approaches to St. Peter Port, and 54 acres of land have been bought by Rush & Tompkins Ltd. for development at a cost of £85,000. They were sold to the Guernsey Government by the Crown some time ago. A condition of sale is that houses to be built there will not be sold for less than £10,000 and the price range is expected to be £10,000-£25,000. Site development will start next year.

Popular Guides to Ancient Monuments

FOLLOWING the recommendation of last year's Select Committee on Estimates, the Ministry of Works is now producing more popular guides to our ancient monuments. They have just published (HM. Stationery Office, price 1s. 6d. each net) excellent souvenir guides to four of the principal Edwardian North Wales castles—Caernarvon, Conway and Harlech (1283), and Beaumaris (1295). Most attractively produced, the guides include text by Alan Phillips, MA (Oxon.) and numerous photographic and other illustrations. The cover designs are by Kyffin Williams. These booklets, of course, are intended not to replace but to supplement the standard guides.

A Constructive House Magazine

A NEW and original type of quarterly house journal has been published by Wates Ltd. It is a breakaway from the

lists of births, marriages, deaths and dinners, dealing instead with subjects of immediate interest in the industry. The first issue is devoted to sculpture and architecture, and the second will cover pre-cast concrete and tall buildings. The journal also includes photographs of recent contracts and many examples of modern sculpture.

Terence Mullaly, art critic of the 'Daily Telegraph,' has written a critical survey on sculpture and architecture. He has examined the present state and future possibilities of sculpture on and near new buildings. He shows how it can enhance the simple lines of modern architecture, and how it can be functional or decorative. He discusses existing successes and failures, and stresses the need for architect-sculptor collaboration.

William Mitchell, an artist who has worked on many London buildings, is visited, and his studio and methods are described. He also stresses the need for an architect-sculptor relationship and relates some experiences in the industry. K. W. Bland, Wates' chief architect, examines the need for planned high density housing. He advocates small groups of buildings and shows how a piece of sculpture can be the focal point of the resulting courts and squares.

Professional Announcement

MR. KENNETH CAVENDISH DUNCAN, DIP. ARCH., ARIBA (RIBA Architecture Bronze Medal for Malaya, excluding Singapore and Penang) who returned to this country last year, has commenced practice on his own account at The Butts, Nether Wallop, Stockbridge, Hants. (telephone: Wallop 348), where he will be pleased to receive trade literature and catalogues.

A Hundred Years Ago

From The Builder of August 3, 1861

THE NATIONAL GALLERY.—In reply to a question by Lord H. Lennox in the Commons, as to accommodation for the Turner pictures in December next, Mr. Cowper stated that there was no plan of Mr. Pennethorne's for a National Gallery in such a state of maturity as that it could be produced. The great difficulty that presented itself was that they had two sites—Trafalgar-square and Burlington House. There would be no difficulty whatever, he said, in building a gallery over the back of the barrack-yard, at a trifling expense, as it would not require much architectural ornament. The cost would probably be about £25,000. He trusted that plans would be ready before the House was asked to agree to any estimate next year.

Obituary

Harry P. Hing, FRIBA

THE DEATH HAS OCCURRED of Mr. Harry Peter Hing, FRIBA, senior partner in the firm of Peter Hing & Jones, the Birmingham architects. He was 76. Mr. Hing, a native of Northampton, opened a practice in Birmingham 47 years ago after working under Norman Shaw in London. He had been in retirement for the past two years.

RIBA

Recent Council Decisions

DECISIONS taken at the Council meeting on July 25 of the RIBA were reported at the President's Press conference last week.

HONORARY OFFICERS: Messrs. Frederick Gibberd, E. Maxwell Fry and J. Lewis Womersley were elected vice-Presidents; and Mr. D. E. E. Gibson and Mr. Hubert Bennett re-elected hon. Secretary and hon. Treasurer respectively. (This was reported in Late News in our last issue.)

IUA CONGRESS: Professor Robert Matthew had reported to Council on the IUA Congress at which 1,746 delegates had been present. The IUA UK committee is to be renamed the 'IUA and Foreign Relations Committee' and become a full committee of the RIBA.

RIBA Fee Structure

The Practice Committee summarised for Council's information where it stands at present on the revision of the fee structure:

Fees for Repetitive Housing: The application of the RIBA's scale of professional charges to work in respect of repetitive housing has now been issued, and the special scales previously applicable to state-aided housing and flats consequently withdrawn.

Differential Fees according to Building Type: The committee has taken the views of a cross-section of the membership, and on information so obtained has drawn up tentative proposals which will be checked against the conclusions of the Office Survey team when these are known.

Consolidated Fees: Here too definite proposals must await the findings of the survey team, but negotiations have meanwhile taken place with the RICS and the Association of Consulting Engineers. One factor affecting progress has been the domestic discussions within the RICS about their fee system and their recent introduction of a differential fee scale relating to quantity surveying services. Another has been the difficulty which the Engineers are finding in determining what is a fair proportion of fees for specialist services in any given job. The indications are, therefore, that even consolidated fees will have to be on a differential basis, but the intention is that, as a result of negotiations now going on, it will at least be possible for the architect to quote to a building owner a comprehensive fee for professional services for any given type of building project.

Fees for Speculative Development Work: Discussions have been taking place recently with the Town Planning Institute, and the practice committee hopes to be able to put to the Council before long recommendations as to fees appropriate to (i) comprehensive redevelopment schemes and (ii) smaller speculative developments.

No RIBA Building Society

RIBA BUILDING SOCIETY: The Council considered a proposal by Mr. David Hyde Harrison, ARIBA, that the RIBA should launch a building society of its own to provide mortgages on houses of good modern design which other building societies are reluctant to finance, and concluded, after hearing the views of certain experts, that an RIBA society was not the answer to the problem which Mr. Harrison wants to resolve.

NORTH STAFFS SOCIETY: Council approved the rules and confirmed the admission of the North Staffordshire Society of Architects (formerly part of the Manchester Society of Architects).

NATIONAL CONSULTATIVE COUNCIL: The President (Sir William Holford) was appointed to serve on the National Consultative Council of the Building and Civil Engineering Industries in place of Mr. C. Culpin. The other representative is the Secretary RIBA, Mr. Ricketts.

ARCHITECTURAL ADVISORY PANELS: Council discussed a paper from the Design and Planning Committee on this subject and arrived at the general conclusion that the panel system should be considered in relation to the wider issue of aesthetic control. The matter remains under consideration.

BY-LAW REVISION: Further revised forms for by-laws 56, 59 and 60 were suggested by Messrs. Cleeve Barr, Clarke Hall and G. B. Oddie, and these will be published when the text has been edited.

OVERSEAS ALLIED SOCIETIES: Recommendations from the Finance and House committee regarding Overseas membership subscriptions and finances of overseas allied societies were considered and proposals will be made public in mid-September. Meanwhile it has been decided to hold a Conference of representatives of allied societies overseas in 1962 in London.

Loans to Local Authorities

Housing Ministry Sanctions

THE FOLLOWING loans were sanctioned by the Minister of Housing and Local Government on behalf of his own Department to local authorities in England and Wales during the quarter ended June 30:

	£	£
Housing (land, dwellings, roads, sewers, etc.)	69,595,248	
Advances under Hsg. and S.D.A. Acts	18,018,860	
Grants under Hsg. Acts ...	3,265,078	
		90,879,186
Town and country planning ...	3,430,067	3,430,067
Sewerage and sewage disposal	14,891,310	
Water supplies	5,923,261	
		20,814,571
Burial grounds and cemeteries	86,318	
Coast protection	80,878	
Crematoria...	243,630	
General depots	454,120	
General markets	146,528	
Land for the benefit, etc., of the district	1,555,606	
Physical training and recreation	682,374	
Private street works	825,947	
Privy conversion	42,555	
Public baths and washhouses...	885,203	
Public conveniences	82,621	
Public libraries and museums...	1,153,677	
Public walks and pleasure grounds	899,672	
Refuse collection and disposal	559,055	
Street cleansing	47,102	
Town halls and offices	1,566,592	
Miscellaneous	866,772	
		10,178,650
		125,302,474

The Load on Building

'Too Much Work May Reduce Efficiency'

With heavy investment from public and private sectors of the economy the construction industries have been booming. Capacity is very heavily loaded. The following article, which is reproduced from the July issue of 'Bulletin for Industry,' a monthly review of the economic situation prepared by the information division of the Treasury, draws attention to some of the dangers of the situation.

OUTPUT by the construction industries was 6 per cent higher in 1960 than in 1959 and the rise has continued this year. Output in the first quarter, when there is normally a fall, was the same as the high level in the fourth quarter of 1960:

CONSTRUCTION OUTPUT

(1954=100)

	1st qtr.	2nd qtr.	3rd qtr.	4th qtr.
1959	106	111	113	116
1960	115	117	118	121
1961	121			

Last year and this, construction has been the main growth element in the economy.

In the first quarter the value of new housing work done by contractors was

WORK DONE BY CONTRACTORS

(£m.)

	1960 1st qtr.*	1960 4th qtr.*	1961 1st qtr.*	Per cent. change 1961 on year earlier†
New housing ...	147	161	162	+ 5
Public	59	60	59	− 4
Private	88	101	103	+11
Other new work ...	236	272	275	+13
Public	103	111	112	+ 6
Private industrial	75	93	98	+26
Private misc. ...	58	68	65	+ 9
Total new work done	383	433	437	+10
Repairs and maintenance	117	126	127	+ 1
Total	500	559	564	+ 8

* Current prices. † Allowing for price changes.

£15m. (5 per cent allowing for price changes) more than a year earlier; all the increase was for private developers. There was a small increase in the total number of houses started in the first five months compared with a year earlier.

Housing accounts for about a third of new contracting work. The other two-thirds was 13 per cent higher in the first quarter than a year earlier allowing for price changes; for public authorities the increase was 6 per cent, for private industrial developers 26 per cent, and for other private developers 9 per cent.

Manpower

The number of operatives employed by contractors increased steadily last year, and the gain has continued this year. In May the total number of operatives was 30,000 greater than in May 1960, a rise of 3 per cent. Despite this addition to the labour force the demand for skilled men was well in excess of supply. In May there were six vacancies for every unemployed carpenter and ten for every unemployed bricklayer.

In Scotland and in the North East the labour position continues to be easier than in the rest of the country, but in May there were more vacancies for skilled men than there were craftsmen unemployed. There has, however, been a considerable reduction in unemployment during the past twelve months and in Scotland there are now four vacancies for every unemployed carpenter and one for every unemployed bricklayer.

Materials

Brick production in January-May was 2 per cent up on a year earlier allowing for seasonal variations. Stocks are now showing the usual seasonal fall but at the end of May were 50 per cent higher than a year earlier. New capacity is coming into use this year, and although delivery periods for some types of bricks are long, providing orders are placed in good time, difficulties can be avoided.

Demand for cement has been rising rapidly and shortages have been reported from a number of areas. Production has risen fast, with deliveries in January/May up a tenth on a year earlier. In addition the industry has arranged for larger imports. Supplies of other materials appear adequate.

New Orders

Contractors have been obtaining new orders at a rate above last year and well in excess of new work done:

NEW ORDERS OBTAINED BY CONTRACTORS

(£m. current prices)

	1960 1st qtr.	1960 4th qtr.	1961 1st qtr.
New housing ...	193	191	203
Public	61	69	73
Private	132	122	130
Other new work			
Public	131	125	157
Private industrial	82	85	83
,, misc. ...	67	72	78
Total new work ...	473	473	521

The total for all new work in the first quarter at £521m. was about 5 per cent up on a year ago allowing for price changes. The main increases on the first quarter of last year came from the public sector—£12m. for housing and £26m. for other new work. Miscellaneous work for private developers rose £11m. but industrial work was virtually unchanged.

A further increase in output can be expected this year as a result of the increased labour force and probably from some extra output per man. But a build-up of orders leading to too much work in hand may reduce efficiency.

Reactions to the Chancellor's Proposals

Some Comments and Observations

The measures announced by the Chancellor of the Exchequer last week to regulate and improve the economic situation have been the subject of statements and comments by a number of individuals and organisations connected with the building industry, from which we publish the following selection.

The National Federation

SOME 'personal views' on the Chancellor's proposals were given to 'The Builder' by MR. PETER TRENCH, OBE, Director of the National Federation of Building Trades Employers.

Mr. Trench said that there was no doubt whatsoever that the new measures were going to have quite an effect on the building industry, but it seemed to him that there were three important points that the Government must bear in mind if the industry was not to suffer unnecessary damage. First, there was so much work in the pipeline that it would take a long time for the effect of the new measures to become apparent and for the industry to drop into a lower gear. The Government must therefore let some months elapse before jumping to any conclusions. If, for example, the industry was looked at in eight weeks' time it might even be found that the volume of work was greater than at present, but it would be disastrous if from this the Government concluded that more drastic measures were necessary.

Second, as soon as the Government saw the economy shaping more favourably, they must give the industry warning to get back into top gear very quickly.

Third, he saw no reason for the building industry to lose confidence in the future. It would indeed, he emphasised, be harmful if the industry dropped its plans to increase its productivity and improve its managerial efficiency or cut down on apprenticeship at the present time. Rather, when the pressure eased, the opportunity should be taken to go ahead with re-equipping the industry so that it was ready to go back into top gear just as soon as the present crisis was over.

Mr. Trench made the point that if the new measures were in the country's interest then they would ultimately be good for the building industry. In regard to the increase in the price of petrol he said that all industries would be affected by this. Higher Bank rate was likely to be felt more keenly, and this was likely eventually to be passed on to the building owner in the form of higher costs.

The increases in purchase tax and so on, which would add to the cost of living, would be reflected in higher pay next February under the industry's sliding scale agreement. He thought they would also make the unions 'tougher' in their pay demands.

It seemed to him that the house building section of the industry would be the most affected, and the smaller builder might notice this most. If the man-in-the-street had less to spend on 'beer and baccy' he would presumably have less to

spend on maintenance and repairs to his property.

Finally, he hoped that the Government's long-term action would prove to be more than mere talk.

'No Effect on Slum Clearance'

MR. BROOKE, Minister of Housing and Local Government, said on July 26 that the new economic measures would not affect Britain's slum clearance programme except that, by relieving some of the load on the building industry, they would help to speed up the completion of new houses and flats.

The Minister, who was speaking after a tour of West Ham, added that there might be some slowing down in the authorisation of the start of new buildings.

Wages Curb 'An Insult'

THE EXECUTIVE of the Amalgamated Union of Building Trade Workers on July 26 expressed 'complete opposition' to the Chancellor's measures, which, they said, 'impose the consequences of Tory failure on the working class.' His appeal for wage restraint 'only a few months after he has enriched dividend holders and surtax payers' was described as 'an insult to the mentality of the trade union movement.'

The executive said: 'We will defend our members from the effects of these completely unfair burdens by every means within our power.' An emergency meeting of the executive of the National Federation of Building Trades Operatives is to be sought by the union executive.

Building Societies and Bank Rate

WHEN the Bank rate rose from 5 per cent to 7 per cent in 1957 there was no general increase in the rate charged on building society mortgages, says a statement issued by the Building Societies Association. As in 1957 so in 1961. The Council of the Association will not recommend a change at present and, if economic conditions improve before long, building societies will hope to avoid any further increase in the mortgage rate beyond the ½ per cent which most borrowers have recently been asked to pay. At the same time, there may well be some reduction in the funds available for new mortgages.

The Association naturally regrets the proposal, the statement adds, to suspend the special House Purchase Scheme which, since its inception two years ago, has enabled over 70,000 people to borrow £78m. for the purchase of houses built before 1919. As, however, the Chancellor of the Exchequer proposes to consult the Association on this matter, no further comment can properly be made at this stage.

Raising the Cost of Paint

AS ANTICIPATED, light hydrocarbon oils have unfortunately suffered under the Chancellor's new measures, states the Industrial Light Oils Committee. MR. NORMAN CAMPBELL, chairman of the Industrial Light Oils Committee, representing 13 national trade organisations, commenting on the 10 per cent. increase in the duty on light hydrocarbon oils, said:

'This will raise the cost of production of a wide variety of products including paint, rubber, plastics and also dyeing and cleaning. The industrial oils used in their processes are subject to the same rate of duty as motor fuel. The export trade of the industries concerned will also be adversely affeoted.'

A New Welsh Seaside Resort

Comprehensive Planning for Towyn Project

A MULTI-MILLION POUND project to build a completely new concept of a seaside resort—the first comprehensively-planned seaside town for over a century—is planned for Towyn, Merionethshire, only 107 miles from the centre of Birmingham.

The resort, to be called Bron-y-Mor, has been planned by Mr. John H. D. Madin, ARIBA, the Birmingham architect, on behalf of Bishton Holdings Ltd., of Bromsgrove.

Bron-y-Mor, situated amid the beautiful scenery of mid-Wales, has been comprehensively planned in its entirety and will be free from the frustrations that spoil most seaside holidays such as chaotic traffic conditions and overcrowding.

The architects have tried, it is stated, to capture the informality of the narrow streets of a Cornish fishing village and the casual splendour of a main piazza in Capri. The paved walkways of Bron-y-Mor mean that people will be able to walk in complete freedom without the danger of haphazard traffic.

The development area covers approximately 40 acres of land lying between the existing town of Towyn and the sea front.

The scheme provides for some 1,000 dwellings of varying sizes for permanent and seasonal use. A population in the region of 3,000 persons is envisaged. There will be over 30 shops of varying sizes, a motel with over a 100 dwelling units, and a 12-storey hotel with between 300-350 bedrooms, which can be used purely as an hotel or partly to incorporate luxury service flats.

A Craft Centre will show the various crafts—for which Wales is famous—actually being made. There will be a conference hall, a lido with a sliding roof, an entertainments centre and car parking for 2,000 cars will be made available.

As an integral part of the new seaside town, an original concept of an entertainments area is proposed. This will be built on a deck raised a man's height above the ground, overlooking the sea. It will include shops, restaurants, lido, dance hall, craft centre, conference hall, an hotel and flats. All these have been designed in such a way that one can enjoy these amenities in all weathers, as the whole Entertainments Centre will be under cover and protected from winds and inclement weather—on the other hand one will still be able to enjoy the fresh air and sunshine.

It is regarded as important that the scheme, on which preliminary work has already begun, should be completed within a limited period and it is aimed to achieve this within four to six years.

View looking eastwards to the central shopping square

Mixed Development at Brighton

Ministry Approval Sought for £6m. Scheme

MAJOR BUILDING developments affecting Brighton's sea front and a commercial area inland are proposed in a scheme which Brighton Town Council is to submit to the Ministry of Housing and Local Government for approval.

If approval is given, the work, costing in the region of £6m., would be carried out by Myton Ltd., a member of the Taylor Woodrow group of building and civil engineering companies, on a 15-acre site between Western-road and Kings-road. Russell Diplock Associates are the architects and planning consultants, and the scheme was prepared in conjunction with Sir Hugh Casson, Brighton's consultant architect.

The proposals make allowance for a new 'five-star' hotel which could replace the existing Grand Hotel; three tower blocks of flats providing more than 300 flats in all; shops and offices; and an entertainment centre on the site of the present Grand Hotel.

Pedestrians and motor-vehicles would be segregated in one of the first large-scale developments of its kind. Plans are for inter-related 'pedestrians only' squares to be surrounded by buildings on three main levels. The concourses on the upper levels would be restricted to foot traffic, and parking and service roads to the buildings would be entirely separate and beneath the concourses. Motorists wishing to shop would park their cars and reach the pedestrian ways by staircases, ramps, lifts and possibly escalators.

The existing thoroughfare, Regency-street—Upper Russell-street, would continue to run straight through the site below the pedestrian concourses and several other points of access would be provided round the perimeter of the site for motor traffic.

In addition to parking areas for the requirements of the development, provision would also be made for public parking for some 1,000 cars.

The shopping facilities would include a department store, a supermarket and about 100 smaller shops, some of which would be on two levels. The highest of the tower blocks of flats would rise some 300 feet.

Other facilities proposed include a medium sized conference hall, with allied exhibition space, a ballroom, public houses, restaurants and entertainment facilities. Landscaping, an integral part of the planning, includes lawns, trees, flowering shrubs, pools, sculpture and fountains.

The Myton scheme for Brighton's redevelopment was one of the three short-listed by the Town Council and placed before the Royal Fine Art Commission in 1960, and was the one subsequently selected for further discussion, in the course of which Myton's original proposal involving 11 acres has been extended to 15. It is hoped that work will begin next year.

An artist's impression of the development, looking seawards over Western-road and showing inter-related shopping squares restricted to pedestrians, and the three tower blocks of flats

A Larger Bracknell

MR. HENRY BROOKE, Minister of Housing and Local Government, is to proceed with a modified version of his proposal to extend Bracknell New Town to provide for an ultimate population of more than double the present planned maximum of 25,000.

Sale of Land at Letchworth

FREEHOLD land from the estate of First Garden City Ltd., at Letchworth, Hertfordshire, was sold on July 25 for private development—the first time this had happened since the garden city was founded in 1903. The land had been acquired at about £40 an acre, but after nearly 60 years two sites of nearly two acres each were auctioned for £6,500 and £7,000, while the third site, of 10 acres, fetched £50,000.

The smaller sites were bought by Mr. L. Valin, and the 10-acre lot by the Laing Housing Co. Planning consent has been obtained for detached and semi-detached bungalows on the two-acre sites, and there is outline planning consent for 36 detached and 28 semi-detached houses, and for a three-storey block of maisonettes, on the large site.

New Building Regulations Planned for Scotland

Existing By-Laws to be Superseded

DRAFT REGULATIONS, made by the Rt. Hon. John S. Maclay, MP, Secretary of State for Scotland, and published on July 27, represent a major step forward towards the full implementation of the Building (Scotland) Act, 1959. This Act, which substantially puts into effect the recommendations of the Building Legislation Committee (The Guest Committee), empowered the Secretary of State to make building regulations to replace the variety of building by-laws and other requirements at present in force in Scotland which together create a legislative problem for Scottish builders, designers and suppliers of materials. The Guest Committee described the existing position as confusing, restrictive and in parts archaic.

The Act thus enabled the creation in Scotland of a uniform code of building standards, precise in its operation and yet flexible enough to take account of the newest modern developments of building materials and techniques and a uniform procedure for handling applications for permission to build.

Revision

The Act required the Secretary of State to set up an Advisory Committee to advise him on the content of the new regulations and then to publish the regulations in draft and afford an opportunity for interested parties to make representations. This is the stage that has now been reached. The draft regulations which in part represent a thoroughgoing revision of the existing model by-laws and in part are completely new are the fruits of two years' concentrated work by the Department of Health for Scotland and other Government Departments, advised throughout by the Building Standards Advisory Committee. In preparing the draft, account has been taken of the latest research by the Building Research Station and the Joint Fire Research Organisation. The proposed regulations constitute a comprehensive new code of building standards for Scotland.

Simultaneously there is published a memorandum which provides a commentary on the draft regulations and includes also the first Report of the Advisory Committee. This memorandum, which also gives a table of comparison between the old and the new codes, is intended to simplify the task of those who wish to scrutinise the draft regulations.

The period for making representation lasts until December 1, 1961. In the memorandum the Secretary of State for Scotland expresses the hope that interested parties will take the opportunity of examining the regulations fully and that they will not hesitate to make observations on them. 'The representations of interested parties at this stage,' says the memorandum, 'are regarded as a potentially important contribution to ensuring that the regulations as finally made will constitute a suitable building code.' Those making representations will be heard at a public inquiry if they so require.

The regulations when finally made will be administered by new bodies called Buildings Authorities which in burghs will consist of Dean of Guild Courts and in county areas will be constituted by the local authorities from their membership. As in the past, it will be necessary to obtain a warrant for most types of building, but conformity with the regulations will ensure the obtaining of a warrant. There are facilities under the Act for obtaining relaxations from the Secretary of State.

The regulations are directly applicable to new buildings, but there is provision in the Act for applying them to existing buildings if it can be shown that this is desirable and reasonably practicable. Thus, for example, it would be possible for a local authority if they consider that the means of escape from fire in an existing building was inadequate, to set machinery in motion to bring it up to the regulation standard.

Chartered Surveyors Annual Conference

Reports of Discussion Groups

AT THE ANNUAL CONFERENCE of the Royal Institution of Chartered Surveyors, held at the University of Leicester from July 4-8, eight discussion groups considered different aspects of the surveying profession arising out of the general theme of the conference, 'The Art of the Surveyor in Practice.' Following is a summary of the reports of the chairmen of the groups:

Group A: Surveying as a learned profession.—The world needs a profession learned in the use and development of land, a profession which is deeply familiar with the nature and characteristics of all real property and which can speak with authority upon the implications to society of the matters with which surveyors are concerned.

All surveyors, despite their diversity, are rooted and united in the land. The learning of surveyors—which should proceed from educated minds—should be built upon a common basic philosophy.

The surveyor's function is usually to advise—the final decision normally being taken by someone else. A surveyor has a duty to give his clients explanation and advice free from jargon, 'technicalia' and mystery, even though this may encourage some clients to consider that they are equally as expert in certain matters.

Group B: Ethics of professional practice.—A surveyor should not take on work that he is not really competent to carry out. He must use his best endeavours on behalf of his clients, but, at the same time, he has a duty to the public and also a further duty to his own conscience. A good chartered surveyor should not only be technically competent but should also be known by his personal reputation.

Registration of estate agents would be a big step towards ending the 'rat race' in this field. The problem has always been the unqualified man who is not bound by the code of any professional society, and registration must make for an improvement in this situation in the long run. The RICS should maintain its own standards, should those laid down by the Registration Council prove to be lower. Registration might well help the surveyor's work to be recognised by the public as being fully professional.

Group C: Recruitment for the profession.—There is a shortage of chartered surveyors at present, particularly in general practice and quantity surveying, and possibly to a lesser extent in building surveying and agriculture and land agency. The somewhat uncertain conditions in the mining industry are tending to encourage young men to consider the estate management section of the National Coal Board rather than the technical section.

The profession cannot compete adequately with industry and commerce for recruits, but it must be competitive with other professions.

Women are not generally aware of the opportunities that exist in the profession, particularly for graduates and more especially in large offices. However, some chartered surveyors are possibly a little prejudiced against women.

Apart from graduates in estate management from Cambridge and London, graduates of the newer universities should be encouraged to enter the profession. Full account should be taken of the fact that they have a degree, and they should be paid accordingly.

At the other end of the scale, careful consideration should be given to the establishment of a 'second tier' of the profession, for boys who do not reach grammar school level. These entrants could very easily have certain professional work delegated to them. The 'graduation' from second tier to first tier should be capable of achievement within a reasonable time, and this might entail a review of the conditions for entry to the Direct Final examination of the RICS.

Public Relations

Group D: Public relations for the profession.—The objectives of the Institution's public relations policy should be: (a) that the designation 'chartered surveyor' and the letters 'RICS' should be instantly recognised and understood by everyone; (b) that everyone—in particular, the Press, BBC and ITV—should be aware that the RICS is the most senior, representative and authoritative body of the surveying profession; and (c) that the

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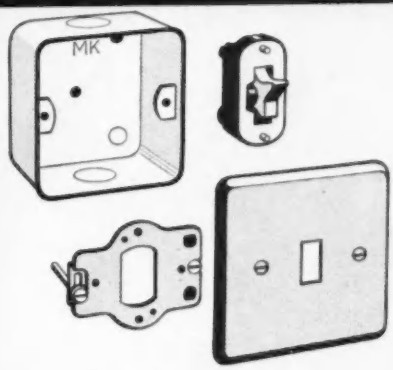

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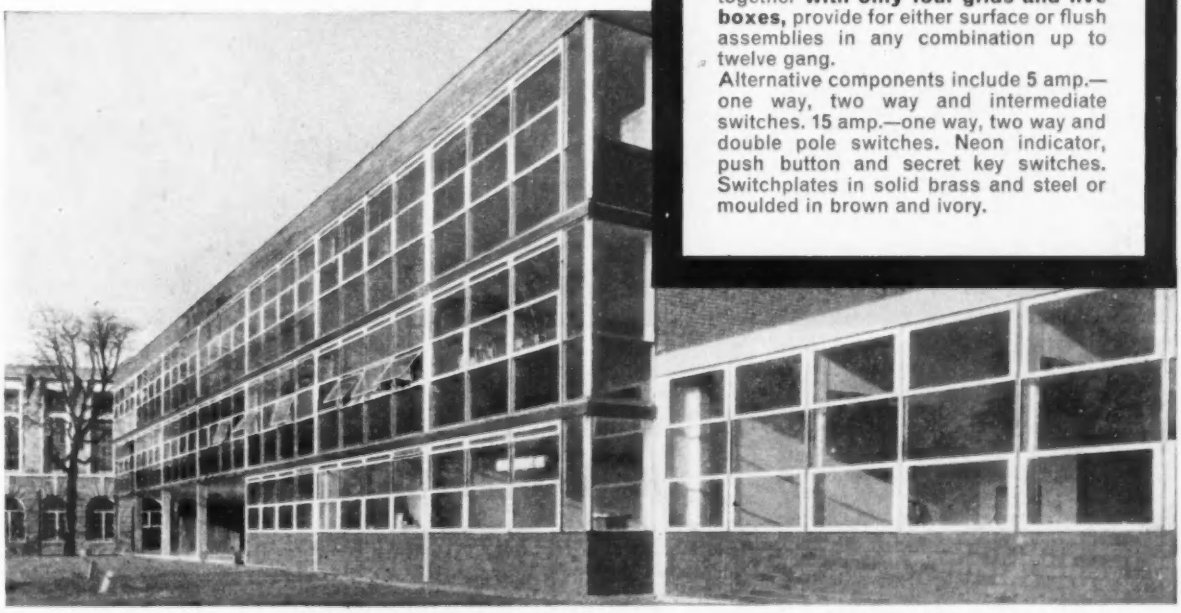

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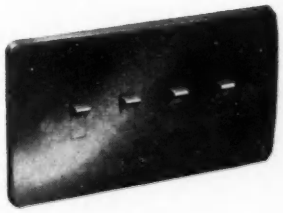

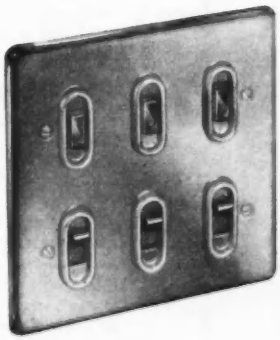

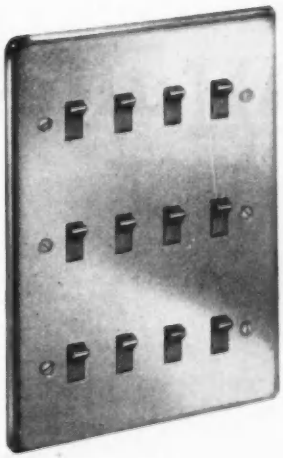

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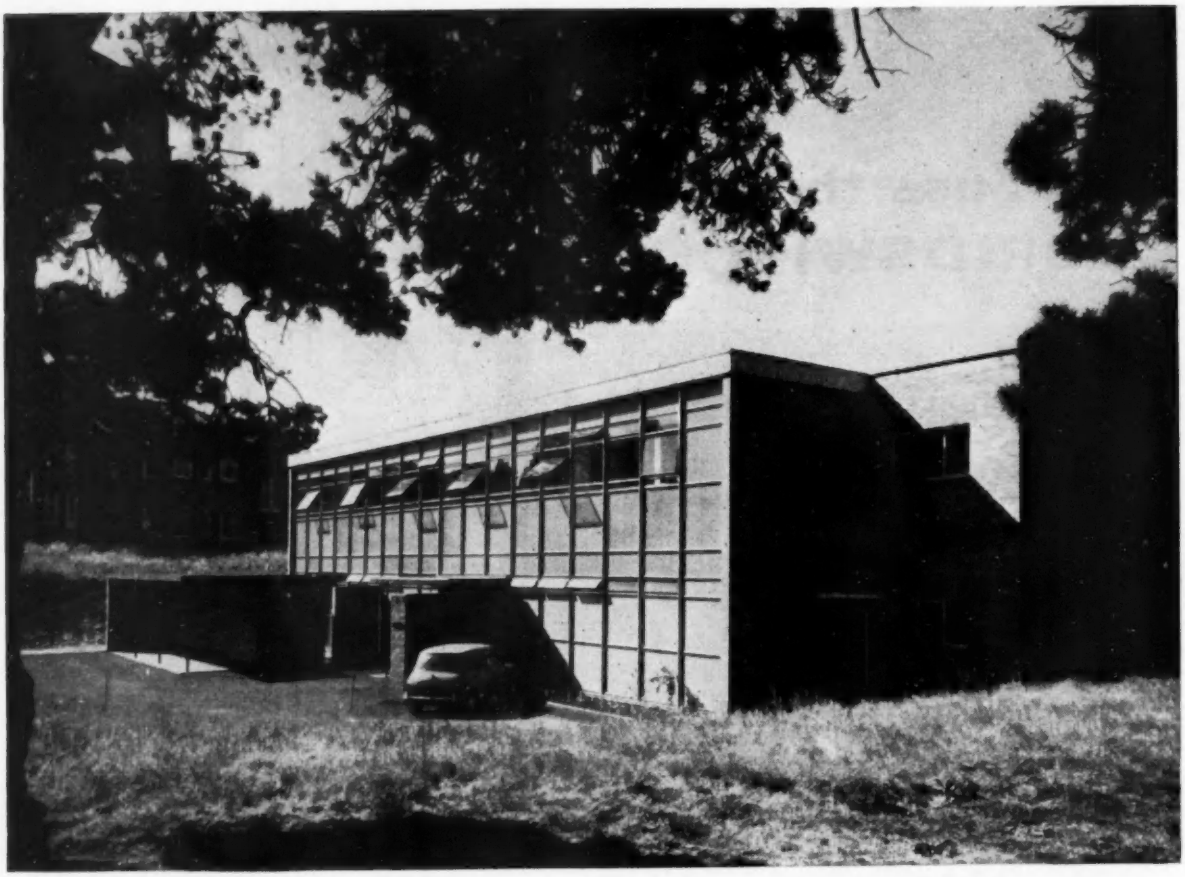

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variety of work which chartered surveyors are qualified to undertake should be understood by everyone.

This policy can be implemented by a variety of methods, but it is essential in all cases to reach the 'man in the street' who, because he has less experience, is more prone to pitfalls. For their own protection, it is wise for the general public to employ a chartered surveyor when buying, selling or leasing property, and also whenever any question of valuation of property is involved.

Group E: Technical information.—There is a need for technical information, in order that chartered surveyors should be kept well informed. The need is fairly well met in building surveying and quantity surveying, except for information on overall costing and on the testing and maintenance of certain materials. The legal aspects of the profession are also well covered by existing sources.

In general, there is a need for the RICS to establish a technical information service, to collate and produce technical information and also to exchange it with other bodies. Full-time staff would be required at the RICS for this purpose.

Group F: Office organisation.—Offices of chartered surveyors are so diverse in size and character that it is difficult to generalise on possible improvements, other than to say that there is a very great number of machines available today, which can improve both speed and efficiency. Organisation and methods surveys are often invaluable.

Noting that the RIBA has recently come down heavily in favour of using international standard paper sizes, it would be worthwhile for the RICS to consider standardising its paper sizes.

Group G: Partnerships.—The advice of the Appointments Officer of the RICS can always be sought by any chartered surveyor who has particular queries concerning partnerships. As with office organisation, it is difficult to generalise owing to the diversity in the size and structure of partnerships, but fundamentally it is good partnership policy to bring in new young blood at regular intervals so that the partnership always represents different age-groups and outlooks.

Group H: Surveyors of the future.—Once landings have taken place on the moon—and even the planets—there will be great scope for surveyors, particularly land and mining surveyors. Looking not quite so far ahead, to the possibility of the United Kingdom entering the European Common Market, the chartered surveyor would have much to contribute to Europe because of his professional integrity, experience and background. His services would be likely to be in increasing demand by our European neighbours.

Cost of Land for a School

Stormy West Riding CC Meeting

THE COST OF LAND for building a school was the subject of a vigorous debate at the meeting of the West Riding County Council at Wakefield on July 19. The finance committee had recommended the purchase of a site of 5.79 acres of land at Wigton Moor, near Alwoodley, for a new school at a cost of £16,500. This is £2,850 an acre.

ALD. J. W. MELLOR, of Wombwell, said, 'It is scandalous. It is the highest price ever paid for land for building by the County Council. Landowners have not paid rates on agricultural land for a long time, but now they have never had it so good.'

ALD. MAJOR J. H. HUDSON, of Wetherby, pointed out that the price had been settled by the district valuer and it was the market price. He said that the population of Leeds was bursting at the seams, and a housing firm had developed nearby land on a large scale. When compared with the price of land for housing, that paid by the County Council worked out at £200 per house site, which, he said, was quite reasonable.

CLLR. T. ROEBUCK, of Mexborough, considered that the remedy was the re-imposition of control.

ALD. A. W. TACK, of Keighley, was of the view that the law of supply and demand could never be defeated. He declared that the principle of green belts had gone too far too rapidly. So much land had been sterilised that it was forcing up the price of the remaining land.

The council approved the purchase of the site.

SA Building Depression

Architectural Employment Hit

DOZENS OF SOUTH AFRICAN ARCHITECTS, many of whom have been established for more than 20 years, have lost their jobs because of the crisis facing the building industry, writes our South African correspondent. The profession has been hard hit because of the reluctance of investors, both in the South African Republic and overseas, to spend money on buildings.

Architects say the bottom has fallen out of an industry that had a £100m. annual output, £65m. of which was supplied by private enterprise. This has now been largely lost, and the industry has to rely on an annual £35m. a year which is the contribution of the central, provincial and local governments.

A comparison of plans passed in the Union during the first four months of this year with the corresponding period of last year shows a fall in value of about £5m.

MR. G. DE. C. MALHERBE, director of the National Federation of Building Trade Employers in South Africa, is more hopeful about the future. 'Admittedly, the private industry took a £3½m. plunge at the end of the first quarter of this year, compared with the last quarter of 1960, but the individual months within the first quarter of this year showed a progressive increase of £500,000 a month,' he says. 'Another good omen is the planned 20 per cent increase in the Transvaal Provincial Administration's building programme for the current year. We hope the Administration will put a bigger share of its building projects out to private contractors.'

Cricket

RICS Draw With Auctioneers

IN THIS MATCH, played at Hampstead on July 19, the RICS Cricket Club drew with the Chartered Auctioneers' XI. The splendid fielding by both sides was a feature of the game. Scores:

Auctioneers

D. D. Clark c. McDonald b. Harrison,C.	5
L. R. Goodeve l.b.w. Harrison, C.	16
C. E. Harper c. and b. Eldred	58
B. Little c. Harrison, C. b. McDonald	10
K. H. Rowbottom run out	56
G. L. Greenway c. Harrison, R. b. Eldred	1
K. B. Bignold b. Eldred	14
P. Dean run out	10
J. L. Jacobs c. Gasson b. Eldred	5
A. D. Latter c. Fletcher b. Eldred	0
R. G. Chapman not out	1
Extras	9
TOTAL	185

Bowling: Eldred, 5 for 62; C. Harrison, 2 for 30; McDonald, 1 for 26.

Surveyors

M. Fletcher c. Harper b. Rowbottom	35
J. M. Gasson b. Greenway	26
R. Oakley c. Chapman b. Rowbottom	4
R. H. Parr c. Harper b. Rowbottom	3
R. G. Harrison b. Rowbottom	0
A. J. Drew not out	50
W. J. Bullard l.b.w. Greenway	0
K. Eldred b. Greenway	0
M. Sarjeant c. and b. Little	14
C. McDonald not out	4
Extras	7
TOTAL (for 8 wickets)	143

C. Harrison did not bat.
Bowling: Rowbottom, 4 for 32; Greenway, 3 for 34; Little, 1 for 38.

RIBA Lose Close Game with RICS

IN THEIR MATCH with the RICS Cricket Club, played at Cheam on July 26, the RIBA lost in a close finish by 2 wickets. Only Morris and Bristow could make much of keen bowling and fielding by the Chartered Surveyors, the side being out for 98. A win for the RICS looked inevitable but Robinson, the architect's captain, had other ideas and five wickets were down for 59. Brown and Ridgwell brought about a recovery, however, and the Surveyors got home with two wickets in hand. Robinson had the excellent figures of 7 for 39. Scores:

RIBA

A. Morris st. Eastall, b. Champion	45
A. Powers c. Lindsey, b. Rossiter	12
J. Batty l.b.w. b. Burnett	4
D. Stevens, b. Burnett	0
D. Robinson c. & b. Rossiter	1
D. Bristow c. Goater b. Lindsey	20
B. Mills b. Lindsey	0
E. Drew st. Eastall, b. Tester	6
M. Pache b. Champion	1
H. Nicholson not out	1
Extras	8
Total	98

RICS

D. Eastall c. Batty b. Robinson	3
B. Tester l.b.w. b. Robinson	4
D. Deagle b. Robinson	27
M. Clapp l.b.w. b. Stevens	6
R. Ridgwell c. Batty b. Robinson	21
A. Goater st. Powers b. Robinson	5
T. Brown l.b.w. b. Robinson	22
B. Lindsey b. Robinson	0
P. Champion not out	6
R. Rossiter not out	0
K. Burnett did not bat.	
Extras	5
Total (for 8 wkts.)	99

Buildings at Stonehenge

Minister's Proposal for Improved Amenities

IN THE HOUSE OF COMMONS on July 25 MR. E. FLETCHER asked the Minister of Works what were his present proposals for improving the public facilities for visitors to Stonehenge. LORD JOHN HOPE in reply said:

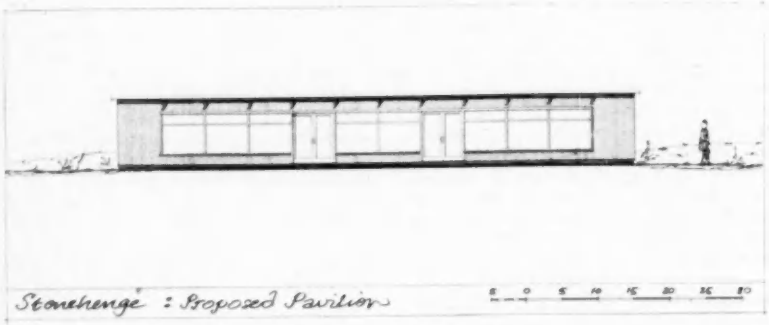
'Facilities are at present provided in three rather obtrusive structures. Because of the increased number of visitors these are no longer adequate. I therefore wish to tidy up the site and provide proper facilities in one building, which, unlike the present structures, would be invisible from the Stones. But the National Trust, who own the land, feel unable to agree. I regret that I can make no further headway without the co-operation of the Trust.'

The Minister's proposal is to remove the two ticket huts and the refreshment caravan, which at present occupy conspicuous positions near the Stones, and to replace them by more adequate facilities in a single building. This would be further down the hill beyond the present car park, well away from the Stone Circle and out of sight of it. The car park would also be moved down the hill.

More Visitors

There were 308,000 visitors to Stonehenge in 1960. So far the rate of this year's attendance is even greater.

During the debate in Parliament on February 14 on the Select Committee on Estimates' report on historic buildings and ancient monuments, SIR ERIC ERRINGTON, MP, described the refreshment facilities at Stonehenge as 'hugger-mugger,' and during the adjournment debate on February 17 about the presentation of monuments for tourists MR. REES DAVIES, MP, criticised the lack of adequate refreshment and car parking facilities at Stonehenge. On both these occasions the Minister of Works and the Parliamentary Secretary described the scheme for improving these arrangements and explained that they were seeking the National Trust's permission to carry it out.



Building in the City

Widening of London Bridge and Approval for Developments Near St. Paul's

VEHICULAR TRAFFIC on London Bridge had increased by 60 per cent in 35 years, said MR. O. G. SUTHERLAND, chairman of the Bridge House Estates Committee, at the Court of Common Council at its meeting on July 27.

He was seeking the Court's approval for the committee's intention to promote a Bill in the next session of Parliament which would, if passed, authorise alterations and improvements to London Bridge. Approval was given.

Mr. Sutherland said that traffic had increased during the 8 a.m. to 8 p.m. period from 17,500 vehicles 35 years ago to 27,000 today. There had also been an increase in pedestrian traffic.

The improvements proposed would widen the bridge by 25 feet; authorise compulsory acquisition by the Corporation of all outstanding interests in the land on a site bounded by Duke-street Hill, Tooley-street and London Bridge-approach and introduce pedestrian access between London Bridge and London Bridge Station.

St. Paul's Precincts

Despite a request made the previous day by the London County Council to withhold conditional approval of drawings for development of the northern precincts of St. Paul's Cathedral, the Court granted approval.

MR. B. G. ARTHUR, chairman of the Improvements and Town Planning Committee, said that the LCC, who had agreed in general in October, 1959, with the development plans, had notified the committee only yesterday that they were not happy about them.

The LCC's Town Planning Committee said it was disturbed by the apparent bulk of buildings envisaged. It asked for the City's conditional approval to be withheld until the Committee had had more time to consider the matter.

Recommending the rejection of the request, Mr. Arthur said the LCC had been consulted on the plans at all stages and had received the drawings early in May. The plans had the approval of Sir William Holford, PRIBA, the architect who prepared the original development scheme in 1956, the Royal Fine Art Commission and the Minister of Housing. There would be serious delays if the drawings were not conditionally approved.

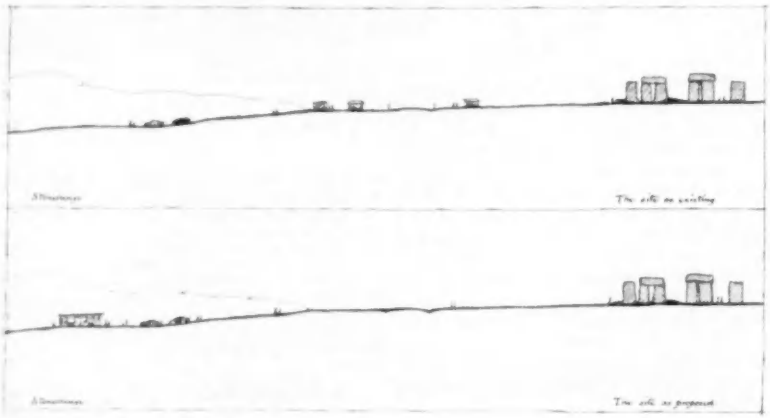
Mr. Arthur pointed out that the City was not legally required to obtain the LCC's agreement for approval of the drawings. The Court decided overwhelmingly to accept his recommendation.

They are for the erection of 'offices, shops, showrooms, etc.' on a site bounded by Newgate-street, Panyer-alley, St. Paul's Churchyard and Warwick-lane. Trehearne and Norman, Preston and Partners of Kingsway, WC2, are the architects.

New Redevelopment Unit

Proposals submitted by the Court's Town Planning Committee for a further redevelopment unit in the City were also approved.

Included in the unit is land bounded by Queen Victoria-street, Huggin Hill, the northern boundary of the Parish Hall of St. James' Garlickhythe, western and northern boundaries of 13 Little Trinity-lane, and the northern and eastern boundaries of 21-25 Little Trinity-lane, northern side of the passageway between 197 Upper Thames-street and Beaver House, Sugar Loaf-court, Garlick-Hill, northern boundaries of 184 to 190 Upper Thames-street, Doby-court, Skinners-lane, Queen-street, Upper Thames-street, excluding the Tower of St. Mary Somerset and the eastern boundary of the new Salvation Army headquarters in Queen Victoria-street.



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Educational Building

Delay in Start on New Projects

IN THE COURSE of last week's debate in the House of Commons on the economic situation, the Chancellor of the Exchequer made the following announcement about educational building: 'In the field of education, there will be reductions in authorisations for minor works and the Minister of Education is considering a rearrangement of priorities in favour of scientific and technical education.'

In Circular 13/61, published on Monday, Sir David Eccles, Minister of Education, has told the local education authorities how he intends to implement this announcement.

The announcement of major building programmes of work to be started in 1963-64 will be delayed until the autumn. In the meantime, the Minister will review the proposals for this programme already sent to him by the local authorities with the object of increasing the priority given within the approved building programme to the expansion of facilities for science and technical education.

The minor works programme for the remainder of 1961-62 and for 1962-63 will be considerably reduced. Very few projects will be allowed to start from now until October 1 next. Thereafter the programme will be resumed on a restricted basis, except for the smallest jobs—those costing less than £2,000—on which there will be no restrictions.

The Week in Parliament

From Our Own Correspondent

Chancellor's Proposals and the Industry

ABSTRACTING a clear cut assessment of the effect on the building industry of the statement of the Chancellor of the Exchequer in the Commons on July 25 and his speech the following day is by no means easy. So much seems to be incalculable as it rests on decisions to be taken in the months ahead.

The capital building programmes will not increase by the planned amounts and in making adjustments and changing the pace, the Chancellor wants to make sure that priority is given to whatever affects national efficiency, and that 'we do not wastefully disrupt programmes under way.' The more detailed decisions on public investment will probably be taken in the autumn when departmental estimates are being collated.

MR. SELWYN LLOYD said they would not interfere with the investment that the nationalised industries required for attaining financial targets and providing essential supplies and services. They were now discussing financial targets with the industries and hoped to reach agreement on them by the autumn. This policy would lead to more effective concentrations upon productive efficiency in the use of labour and capital. He expected the calls of these industries on the Exchequer for finance to be progressively and substantially reduced over the next five years in spite of substantial increases of investment in some cases. (That does not appear to indicate any large-scale slackening of work for the building industry.)

The Nationalised Industries

The Chancellor, however, said on July 26 that they were asking the nationalised industries to avoid investment expenditure where this could be done without damage to the central objectives. The Ministry of Transport provided an example the same day when THE MINISTER announced in a written reply that in view of the difficult economic situation it had been decided to defer a decision on the construction of the proposed new Victoria tube to NE London. So it's farewell to that project.

Government supply expenditure next year, unless checked, would rise substantially, said THE CHANCELLOR, and he intended to do his utmost to keep the increase at not more than 2½ per cent, which should be within their expanding capacity to carry. With regard to the current year, it would be a waste of resources to delay work in progress or to postpone necessary maintenance. The Chancellor is thus leaving room for some expansion in public investment, but he indicated some of the measures that would be taken as part of the process of containing future expenditure.

In education he said there would be reductions in authorisations for minor works and the Minister of Education was considering a rearrangement of priorities in favour of scientific and technical education. In Scotland there would be some rephasing of the education building programme, but again with special consideration for technical education. For the National Health Service, including local authority health and welfare services, growth of current expenditure in real terms would for the next four years be planned at about 2½ per cent a year.

He went on: 'For roads, the Government have decided upon a firm five-year programme, which will involve a considerable increase above the present rate of expenditure, but one which I judge to be within our capacity and also one which I think is directly related to production and productivity. We intend to develop other long-term programmes in the same way.'

The Chancellor said the Government were seeking the co-operation of local authorities in restraining and postponing expenditure wherever they could to relieve the overload on the economy. This would involve the postponement, perhaps for a considerable period, of many desirable but not essential projects. As an illustration he said that action on the Wolfenden report on sport must wait for some time to come.

The established New Town Development Corporations would be asked to contain their rate of expenditure within present levels and, indeed, to make reductions where they could over the whole range. He hoped that the effect of this would be that the local authorities' capital expenditure in 1962-63 would in the aggregate not exceed significantly that of the current year. Leaders of the local authority associations had been invited to a meeting to ensure that they all worked together.

Mr. Lloyd pointed out that there had been no cut in investment or initial allowances. In that respect it was not the medicine as before. In 1951, 1956 and 1957 there were restrictions on investment which affected investment in productive industry. This departure from precedent would, he believed, command general support. On the other hand, they must face the consequences of that decision. Investment had been moving up quite sharply over the past two years.

That was a good thing and it might be said to be an overdue process. At the same time it imposed a very large demand upon resources and was in itself responsible for part of the overload. Unless they had a pause in additions to personal incomes and in public and private expenditure on less essential things, they could not have soundly based long-term growth. For such growth to take place the most helpful action which the Government could take was to bring public expenditure of all sorts under better control and make it better related to the resources available. That was the really significant contribution the Government could make. This he intended to do.

The Chancellor subsequently went on to expand his ideas on planning. There were various bodies in the private and public sectors whose function was to take stock of the situation, to comment on what was happening or what had happened and to advise. They did valuable work within their terms of reference.

'More Purposeful Planning'

'I want something more purposeful than that,' he went on. 'I envisage a joint examination of the economic prospects of the country stretching five or more years into the future. It would cover the growth of national production and distribution resources between the main uses, consumption, Government expenditure, investment and so on. Above all, it would try to establish what are the essential conditions for realising potential growth.'

He wanted both sides of industry to share with the Government the task of relating plans to the resources likely to be available.

For the Opposition, MR. HAROLD WILSON said the national needs were production, exports and costs, but the Chancellor's proposals made no contribution to any of these, except in a harmful sense. The

Chancellor should not disregard the effect on investment of the Bank rate of 7 per cent, and the effect of failing to distinguish between the essential and less essential and the frivolous.

The Chancellor's clear bias against the public sector had been shown in his determination to starve the public services in an otherwise affluent society. That was shown above all in his policies for housing. Council housing, the spearhead in the attack on chronic overcrowding and the slum problem, was to be cut. Last year the rate of local authority housebuilding starts in England and Wales was 98,000. That figure was not much more than half the rate achieved in 1948 when they were still beset by shortages of imported timber, cement and building labour. Now it was to be cut again. He reminded the Chancellor of the heartaches of overcrowded families, of husbands and wives living apart or with in-laws or suffering the degradation of living in slums.

This would continue for years longer because of a doctrinaire Chancellor who refused to control luxury building and the building of inessential prestige office blocks and who preferred to go for the easy option of attacking the local authorities. The Chancellor had used the phrase 'desirable but not essential.' The Shell building, the Vickers building—were they essential or desirable? What about the speculative office block built in Holborn and still empty?

Last week the chairman of the Building Societies' Association, speaking when Bank rate was only five per cent, had said that if prices continued to go up as they had done over the last two years a man earning under £1,000 a year would be excluded completely from the house buying market before the end of the year. This meant that £20 a week was the prerequisite of getting houses today in the property-owning democracy. Only one in nine earned £20 a week, so what were the remainder to do?

'Paper Plan' Jibe

Mr. Wilson repeated the Labour proposal for a four- or five-year plan for steady and sustained economic expansion, giving priority to the investment needed. This was not, he said, a mere co-ordination of planners and consultation systems. What the Chancellor had proposed was a paper plan.

During the debate THE CHANCELLOR interrupted one Labour MP to say that he was not restricting himself to the idea of some planning board within the Treasury.

MR. RAY GUNTER said that if they were to have planning and a central direction of the economy it was necessary that Government departments should have the staff competent to deal with such matters. There was a deep and urgent necessity for a real effort to review the economy of the country by a planning board of some sort being established.

MR. ANTHONY BARBER, Economic Secretary to the Treasury, said the Government recognised the disadvantages of what the Plowden report called 'short-term economy campaigns' and 'stop and go' policies, but the Government proposals for public expenditure were not of a short-term character. No one would seriously suggest that if the economic situation warranted it, a change in the pace of public sector expenditure should not be made. The Chancellor's changes had been carefully selected to ensure that they were not uneconomic or wasteful.

The Plowden Report

For soundly based long-term growth to take place the most helpful action for the Government to take was to bring public expenditure of all sorts under proper control, said MR. SELWYN LLOYD, during his speech on the economic situation in the Commons on July 26. Stating that he intended to do this, the Chancellor went out of his way to express his gratitude to Lord Plowden and his colleagues for a most constructive report which was published on July 20.

This report (noted in 'The Builder' last week) stands out sharply in the background to the Chancellor's announcements in Parliament on July 25. Mr. Lloyd said sufficient in the course of these announcements and during his speech the following day to indicate that he intends to take to heart one of the main recommendations of the Plowden document. In referring to planning—'I am not afraid of that word' he had confessed, much to the amusement of the Opposition—the Chancellor said he was envisaging a joint examination of the economic prospects of the country stretching five or more years into the future covering growth of national production, distribution of resources, consumption, Government expenditure, investment and so on.

Heliports for London

Minister Gives Some Planning Data

MR. PETER THORNEYCROFT, Minister of Aviation, told MPs on July 24 that in their first report, the Committee on the Planning of Helicopter Stations in the London area had recommended (as briefly reported in our last issue) three possible sites for the operation of regular services with large-scale helicopters: Nine Elms goods yard, Cannon Street Station roof and St. Katharine Docks. Detailed technical and economic studies were continuing. He had decided to publish their report, together with a supplementary report on the possibility of operating helicopters from the roofs of high buildings.

MR. NORMAN DODDS asked if the Minister could say there was hope of getting helicopter landing stations in London. Many provincial towns had for years earmarked sites and London had been holding things up. THE MINISTER replied that they must never lose hope. He shared the view that it was clear that helicopters would play a part in city-to-city travel in the future.

In a foreword to the report, the Minister states that in the eventual choice of site and in the design of a heliport every advantage would be taken, within inevitable technical limits, of height, of the river and of industrial areas, so as to provide a buffer between the heliport and residential areas.

The committee state that a permanent heliport within easy access of the residential, hotel and office areas of London would provide a new transport facility which would benefit many but which for others would undoubtedly create problems, of which noise was the most serious. Nevertheless, they had sought to avoid solutions that might be extravagant. To provide enough space for helicopters to land and take-off and for working stands at the heliport, a level area of about eight acres would be required to handle 25 movements an hour. In addition an area of about four acres would be needed for terminal buildings and car parks, which, if the landing area were on a raised platform, would be provided on a lower deck or at ground level.

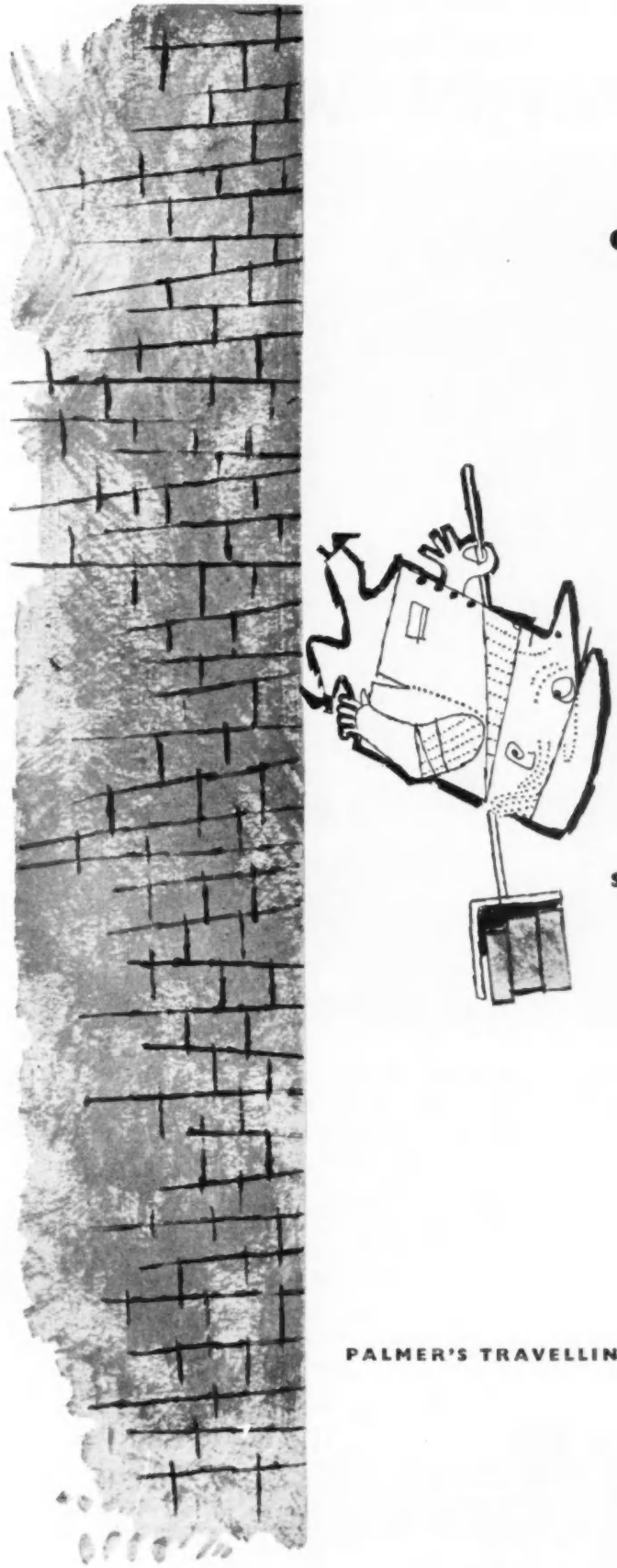
Provided the site was carefully chosen, i.e., on the river and in an area where the activities were mainly industrial and commercial, the quieter types of helicopter as well as existing piston-engined types should be able to use the heliport at moderate frequences without causing a serious problem.

Economics of High Platforms

The supplementary report on the high heliport concluded that a 600 ft. high platform was feasible in engineering terms but would cost about £7m. to build. There would be only a small saving in capital cost from combining it with an associated building some 350 ft. high which complied with planning requirements. An associated building would make no substantial contribution to the revenue of a 600 ft. high heliport. Operationally, a 600 ft. high heliport would reduce noise, give freedom in aligning pads and flight paths and remove safeguarding problems. By the same token, however, a platform of this height would not be usable enough of the time and would leave little room for helicopters to fly beneath the approaches to Heathrow. The planning objections would be very great or insuperable.

A platform about 200 ft. high would be about £2m. cheaper, could be more profitably associated with another building, and would be less objectionable on visual amenity grounds. It would confer less advantage in noise reduction and the alignment of pads and flight paths but it would be more usable and would still remove most of the safeguarding problems. The advantages of building high within the limits outlined in this report should be taken into account at the engineering design stage.

In reaching these conclusions the committee had the benefit of a preliminary engineering study of a heliport 600 ft. high carried out, at the committee's invitation, by Messrs. Freeman, Fox and Partners, consulting engineers.



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Export of Building Materials and Plant

Latest MoW Figures Show Fall in Prospective Work

FROM FIGURES made available by MoW, it is possible to see the state of exports of building materials and fitments and components. Building materials (excluding paint) in 1960 at £29.5m. showed a small but welcome improvement over the 1959 and 1958 figures, though still well below the peak post-war year of 1955 (£34.7m.). Iron and steel exports, excluding galvanised sheets of iron or steel, on the other hand, at £32.2m. were the best ever, being £2m. up on the previous best (£30.2m. in 1957). Export of galvanised sheet at £6.4m. was under half of the 1957 record of £13.2m.; in this decline it followed 1958 and 1959 figures. The total for materials and iron and steel exports at £68.1m. is up as compared with £61.3m. in 1959 but down as compared with the record of £73.1m. in 1957.

Building Components

Export of building fitments and components at £44.1m. in 1960 show a decline from the peak of £48.9m. in 1958, but a small improvement (£0.2m.) over 1959. The figures are on following page.

The grand total of materials and building fitments and components for 1960 was, therefore, £112.2m., the highest since the 1957 record figure of £121.6m. The total for the first three months of 1961 (£29.8m.) is £1.2m. up on the comparable quarter of 1960.

Civil Engineering Contractors' Plant

The total exports of civil engineering contractors' plant (deliveries for export) in 1960 at £4,825,000 were slightly above those for 1959 (£4,664,000).

Overseas Construction

The picture for overseas construction is not so good. It is true that the value of contracts executed in the year ended March 31 last at £135m. is a record, but the provisional value of new contracts obtained at £98m., shows a fall of £33m. over 1960 and the value of work outstanding, £100m., is also £33m. below 1960's record figure. The recession is due not to a drying-up of work in one or two fields but is spread fairly widely over the whole field. As such it must give rise to anxiety.

BRITISH CONTRACTORS' WORK OVERSEAS (in £m.)

	Year ending 31.3.60	Year ending 31.3.61 (Provisional)
Value of contracts obtained ...	131	98
Value of work done	124	135
Value of work outstanding ...	133	100

CIVIL ENGINEERING CONTRACTORS' PLANT: DELIVERIES FOR EXPORT
(Source: Monthly Digest of Statistics)

	Earth-moving Machinery	Concrete Mixing and Handling Machinery	Asphalt and Tar-macadam Plant	Road Rollers	Crushing, Pulverising and Screening Plant	Lifts, Escalators and Guide Rails	Total	Space-Heating, Ventilating and Air-conditioning Equipment†
	£000	£000	£000	£000	£000	£000	£000	£m.
1948	111	126	32	137	67	*	—	*
1949	140	99	32	83	78	*	—	*
1950	251	118	40	101	85	*	—	*
1951	409	155	57	95	115	*	—	*
1952	540	190	76	135	133	*	—	*
1953	556	166	69	114	127	*	—	*
1954	561	140	81	130	128	1,827	—	*
1955	770	181	86	159	143	1,595	—	*
1956	1,112‡	200	110	181	176	1,531	—	*
1957	1,912	189	122	164	192	1,570	—	*
1958	1,693	137	118	101	190	1,934	4,173	34·8
1959	2,061	134	128	116	189	2,036	4,664	38·3
1960	2,367	185	147	138	181	1,807	4,825	43·0

* Not available; BoT is the production authority for these items. † Total deliveries.
‡ Prior to 1957 earth-moving machinery other than excavators.

EXPORTS OF BUILDING MATERIALS (excluding paint)

Materials	Value in £millions														
	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961 to June
Bituminous asphalts (manufactured) and emulsions	0·6	1·0	0·7	1·1	1·5	1·7	1·3	1·6	1·7	1·9	1·8	1·8	1·5	1·7	0·8
Putty and paste fillers	0·1	0·1	0·1	0·1	0·2	0·2	0·1	0·2	0·2	0·2	0·2	0·2	0·3	0·4	0·2
Rubber tiling and flooring	0·1	0·2	0·2	0·4	0·5	0·2	0·2	0·2	0·2	0·2	0·2	0·2	0·2	0·2	0·0
Plywood, fibre building board and builders' woodwork	0·3	0·3	0·3	0·3	0·3	0·3	0·5	0·5	0·7	0·6	0·7	0·7	0·5	0·5	0·4
Wallpaper	0·6	0·5	0·4	0·8	0·8	0·7	0·6	0·9	0·7	0·9	0·7	1·0	0·9	1·2	0·5
Flooring felt	0·4	0·6	0·6	0·7	1·0	0·9	0·7	0·8	1·0	0·8	0·7	0·7	0·6	0·6	0·3
Cement, calcareous, Portland, ground	3·3	6·9	8·1	8·4	10·7	12·4	10·7	9·8	10·0	8·5	7·4	6·5	6·2	5·9	2·6
Cement, all other kinds (excl. gypseous)	0·4	0·4	0·5	0·6	0·8	0·9	0·9	1·2	1·4	1·4	1·4	1·2	1·1	1·3	0·7
Asbestos cement pipes, ridges, sheets, slates, etc.	1·4	2·1	2·3	2·2	2·7	3·5	3·4	2·7	3·2	3·5	3·1	2·0	1·8	1·8	1·0
Thermoplastic floor tiles	N.A.	N.A.	N.A.	N.A.	N.A.	0·4	0·7	0·9	1·2	0·9	1·1	1·2	1·3	1·3	0·5
Lime, cement waterproofing compound, stones and slates and other building materials not elsewhere specified	0·7	1·0	0·8	1·0	N.A.	N.A.	0·8	0·8	1·4	1·3	1·3	1·3	1·0	1·1	0·6
Clay drain pipes, angles, bends, etc. ...	0·2	0·4	0·4	0·5	0·5	0·5	0·5	0·4	0·4	0·5	0·5	0·3	0·3	0·3	0·2
Glazed clay tiles, wall and hearth ...	1·3	2·3	1·7	1·8	2·8	2·3	1·8	2·3	2·6	2·6	2·2	2·3	2·5	2·7	1·2
Other clay tiles	0·1	0·1	0·1	0·2	0·3	0·3	0·3	0·2	0·3	0·3	0·3	0·3	0·3	0·5	0·3
Glass, sheet window, unworked ...	1·0	1·8	2·2	2·4	2·7	1·6	1·6	1·7	2·1	2·3	1·8	2·0	2·8	2·6	1·0
Glass, polished plate, not further worked	1·3	1·5	2·0	2·6	2·6	2·6	3·6	3·6	6·4	6·0	5·2	5·6	6·1	6·1	2·4
Glass, rolled plate	0·6	0·7	0·8	0·8	1·2	0·8	0·9	1·1	1·2	1·1	1·1	1·2	1·2	1·3	0·9
TOTAL	12·4	19·9	21·2	23·9	28·6	29·3	28·6	28·9	34·7	33·0	29·7	28·5	28·6	29·5	13·6
IRON AND STEEL:															
Bars, Rods, Angles, Shapes, Sections, Girders, Beams, Joists and Pillars (Rolled) of I. & S.	10·1	11·2	13·9	19·8	16·7	17·6	15·6	17·2	21·1	25·4	30·2	20·9	26·4	32·2	19·4
Galvanised Sheets of Iron or Steel ...	2·1	3·9	5·1	6·4	3·8	5·6	9·8	12·5	12·1	11·5	13·2	6·5	6·3	6·4	2·9
TOTAL	12·2	15·1	19·0	26·2	20·5	23·2	25·4	29·7	33·2	36·9	43·4	27·4	32·7	38·6	22·3
TOTAL MATERIALS ...	24·6	35·0	40·2	50·1	49·1	52·5	54·0	58·6	67·9	69·9	73·1	55·9	61·3	68·1	35·9

EXPORTS OF BUILDING FITMENTS AND COMPONENTS
(Source : BoT Trade and Navigation Accounts)

Fitments and Components	Value in £ millions														
	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961 to June
Cast iron rainwater pipes, soil and drain pipes (including gutters) ...	0·1	0·4	0·5	0·5	0·6	0·6	0·7	0·6	1·0	0·9	0·9	0·9	1·3	1·2	0·4
Windows and casement doors (including parts) of iron and steel	1·0	1·7	1·5	1·8	2·6	3·2	2·9	2·5	3·3	3·3	3·4	3·2	3·2	3·0	1·4
Structural steelwork	N.A.	N.A.	N.A.	N.A.	6·7	7·0	9·1	8·4	7·7	9·3	14·2	16·3	12·9	10·9	4·6
Aluminium windows and doors and other non-ferrous structures ...	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	0·8	1·1	1·1	1·0	1·3	1·0	0·8	1·1	0·5
Padlocks	0·4	0·3	0·3	0·2	0·3	0·3	0·2	0·2	0·2	0·3	0·2	0·2	0·2	0·2	0·2
Rim locks, mortice locks, cylinder latches, etc., for buildings	0·5	0·7	0·6	0·5	0·7	0·9	0·6	0·7	0·9	1·0	0·8	0·8	0·8	1·0	0·6
Hinges, hinge blanks and parts... ...	0·3	0·5	0·5	0·4	0·2	0·2	0·3	0·4	0·4	0·4	0·4	0·3	0·3	0·4	0·2
Vats, tanks and cisterns, wrought, of galvanised iron and steel	0·3	0·3	0·4	0·3	0·2	0·2	0·3	0·3	0·2	0·3	0·3	0·3	0·2	0·2	0·2
Stoves, grates and ranges (including parts), of iron and steel (*c*), using solid fuel for domestic cooking and heating	0·5	1·0	0·8	1·1	1·4	1·4	1·3	1·3	1·4	0·9	0·8	0·7	0·7	0·8	0·4
Stoves, grates and ranges (including parts), of all metals, using liquid fuels...	0·4	0·5	0·5	0·7	0·7	1·5	1·4	1·6	1·9	2·3	2·0	2·3	1·9	1·9	0·5
Gas Cookers, Stoves, radiators, space heaters, etc., of iron and steel ...	0·3	0·6	0·6	0·6	0·8	0·8	0·7	0·9	1·1	1·0	1·2	1·3	1·3	1·6	0·8
Gas water heaters	0·2	0·2	0·2	0·3	0·4	0·4	0·3	0·3	0·4	0·4	0·4	0·4	0·4	0·4	0·2
Cocks and valves of brass and copper alloys (excluding nickel alloys) ...	1·2	1·4	1·4	1·5	1·9	2·1	1·4	1·3	1·7	2·1	2·1	1·7	1·7	2·0	1·4
Electric cooking equipment and parts (*d*)	1·0	1·8	1·5	1·6	2·9	2·6	1·4	2·2	2·9	2·6	2·3	2·2	2·3	2·3	1·1
Electric heaters and parts (*d*)	1·0	0·6	1·0	1·0	1·4	1·5	1·3	1·7	2·1	2·0	1·9	2·0	2·0	2·2	1·4
Electric House service meters (including prepayment types)	1·1	2·3	1·6	1·4	1·5	1·8	1·1	1·5	1·6	2·0	1·7	1·8	1·7	1·8	1·1
Prefabricated buildings (including garages, huts, greenhouses, etc.) (*a*)	N.A.	N.A.	N.A.	2·8	5·5	6·9	3·8	2·8	3·1	4·3	3·3	5·8	3·8	4·3	1·8
Radiators and boilers for central heating system	0·3	0·2	0·3	0·3	0·2	0·2	0·3	0·3	0·4	0·4	0·3	0·3	0·3	0·3	
Sanitary ware, earthenware (including vitreous ware)	1·3	2·1	2·4	2·2	2·8	2·6	1·9	2·2	2·9	3·5	2·7	2·4	2·5	2·6	0·2 1·2
Sanitary ware, fireclay, glazed and enamelled	0·4	0·6	0·5	0·4	0·5	0·6	0·5	0·5	0·6	0·6	0·5	0·4	0·4	0·6	0·2
Baths, domestic, of iron and steel ...	0·2	0·8	1·1	1·2	1·3	1·1	0·4	0·6	0·9	0·7	0·6	0·4	0·3	0·4	0·2
Flushing cisterns of iron and steel ...	0·1	0·2	0·3	0·3	0·3	0·3	0·3	0·2	0·4	0·4	0·3	0·3	0·3	0·3	0·2
Sanitary and plumbing fixtures not elsewhere specified (*e*)	0·1	0·2	0·2	0·1	0·2	0·2	1·1	1·1	1·7	1·7	1·4	1·4	1·7	1·7	1·0
Electric wiring accessories (*b*)	3·2	4·9	4·5	3·6	4·3	5·2	4·9	4·7	5·1	5·6	5·1	2·1	2·5	2·5	1·5
Gas meters	N.A.	N.A.	0·4	0·5	0·4	0·3	0·3	0·3	0·3	0·4	0·4	0·4	0·4	0·4	0·2
TOTAL	13·9	21·3	21·1	23·3	37·8	41·9	37·3	37·7	43·3	47·4	48·5	48·9	43·9	44·1	21·5
TOTAL MATERIALS...	24·6	35·0	40·2	50·1	49·1	52·5	54·0	58·6	67·9	69·9	73·1	55·9	61·3	68·1	35·9
GRAND TOTAL ...	38·5	56·3	61·3	73·4	86·9	94·4	91·3	96·3	111·2	117·3	121·6	104·8	105·2	112·2	57·4

(*a*) Heading revised w.e.f. 1.1.58 to include parts of prefabricated buildings ; (*b*) Heading revised w.e.f. 1.1.58 to omit certain fittings ; (*c*) Heading revised w.e.f. 1.1.52 to include non-ferrous metals ; (*d*) Heading revised w.e.f. 1.1.50 to include certain parts and accessories ; and (*e*) Heading revised w.e.f. 1.1.53 to include fixtures of non-ferrous metals.

Early Finish to a Contract

Birmingham Refuse Extra Payment

AT A MEETING of the Birmingham City Council on July 25 the chairman of the public works committee disclosed that offers made by the contractors, Tarmac Civil Engineering Ltd., to finish the Birchfield-road underpass at Perry Barr this year instead of next March on payment of further sums, had been 'turned down flat.'

CLLR. DENNIS THOMAS, committee chairman, said that his committee had been approached recently by the contractors suggesting that they might complete the scheme by the end of the year 'on payment of £13,750' for the inconvenience involved. Cllr. Thomas went on to say that he had met the Tarmac representative and put forward 'the reasonable offer of £10,000 to get the work completed by December 31.' The representative had said that he did not think his firm would do the work for that amount and when Cllr. Thomas reported that reply to his committee, the latter decided to turn down the £13,750 offer. Cllr. Thomas said 'I then had an offer from the contractors of £10,000 to complete the work but that too was turned down flat.'

MR. T. MCMILLAN, a director of Tarmac Civil Engineering, commenting on the matter confirmed that the facts outlined by Cllr. Thomas were correct. 'We offered to finish by the end of November and I think the figure was £13,750 but they turned it down. We then went back and said we could get it finished by December 14 for £10,000, and they turned that down too. Now they have turned it down we have slackened off. There is no incentive for us to finish ahead of the contract time.'

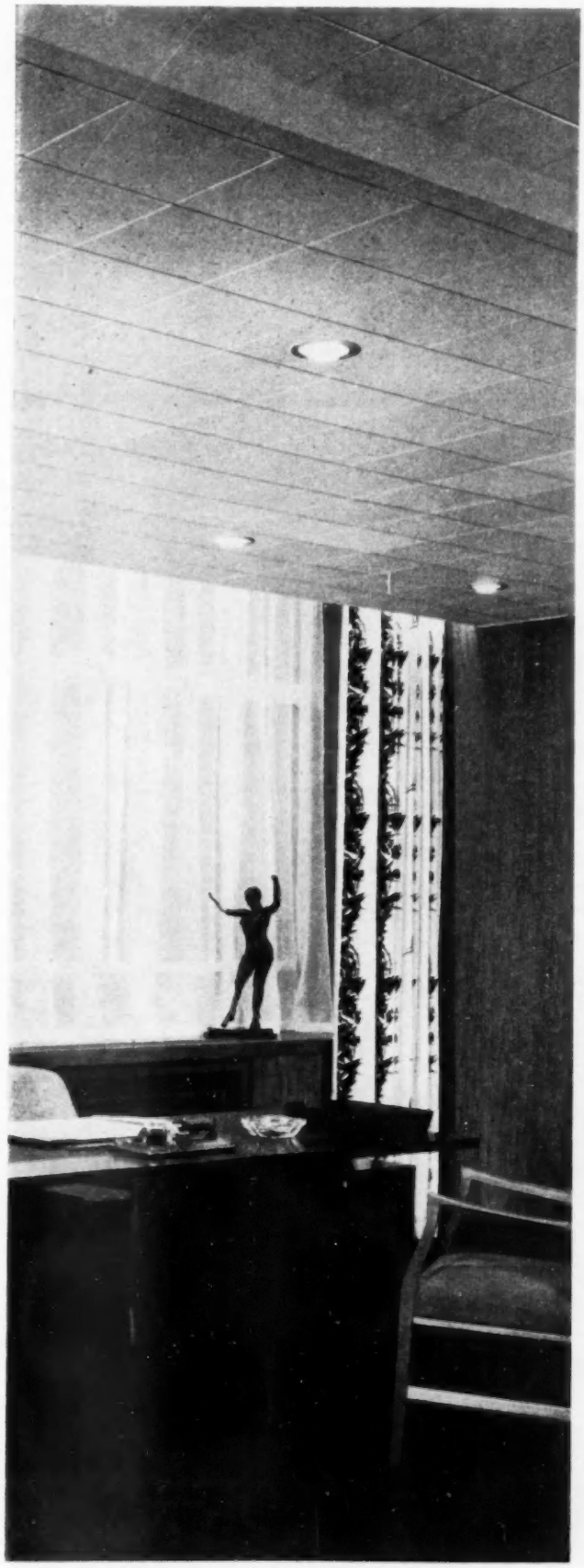
He said that the firm's offer had been made possible mainly because a dry spell had enabled it to get ahead. 'We have worked long hours and spent a good deal of money on incentive bonuses and overtime. We feel that perhaps the council is expecting us to get out before the end of the year entirely at our own cost and we do not think that is fair.'

ALD. H. E. TYLER, a member of the public works committee, said that he had never previously heard of an offer from contractors to complete the work before the scheduled time for an extra payment. 'We were told that it would cost Tarmac £13,750 to complete the contract by December 31. The reason would appear to be that overtime payments would be necessary.' He added that he had not known before the meeting of the council on July 25 that Tarmac had made a subsequent offer of £10,000 and that this had been refused. 'It was the chairman's own decision,' he said.

CLLR. THOMAS recalled that the scheme had been put out to open tender and that the lowest was from Tarmac which gave March 1962 as finishing date.

Signals for Crane Operators

THE EXECUTIVE COMMITTEE of the Lorry Mounted Crane Association agreed at the July meeting to adopt the standard signals for crane operatives drawn up recently by the Federation of Civil Engineering Contractors and they have recommended members to display a card, illustrating the signals, inside the cab of every lorry mounted crane. The signals were reproduced in 'The Builder' of June 23, 1961.



The dividends of silence...

A successful compromise between a conservative exterior and an adventurous and modern interior has been made at the Ionian Bank's building in Coleman Street, London E.C.2. Five of the Bank's directors share a large first-floor office. The elimination of excessive noise was considered essential and has been achieved by the use of Armstrong Travertone tiles. The superb decorative effect of these fire-resistant mineral wool tiles has enhanced the appearance of the room, where the individual tastes of the five directors have been effectively blended.

Cushiontone and Corkoustic are other Armstrong acoustic tiles with a high sound-absorption coefficient. Armstrong experts are at your service to assist you in the choice of acoustic materials and the solving of acoustic problems. Please write for full details.

◀ The directors' office in the Ionian Bank.
Architects: Guise, Davies & Upfold
Acoustic contractors: Horace W. Cullum & Co. Ltd.

The next advertisement in this series will feature the Roman Baths at Bath

Armstrong acoustics

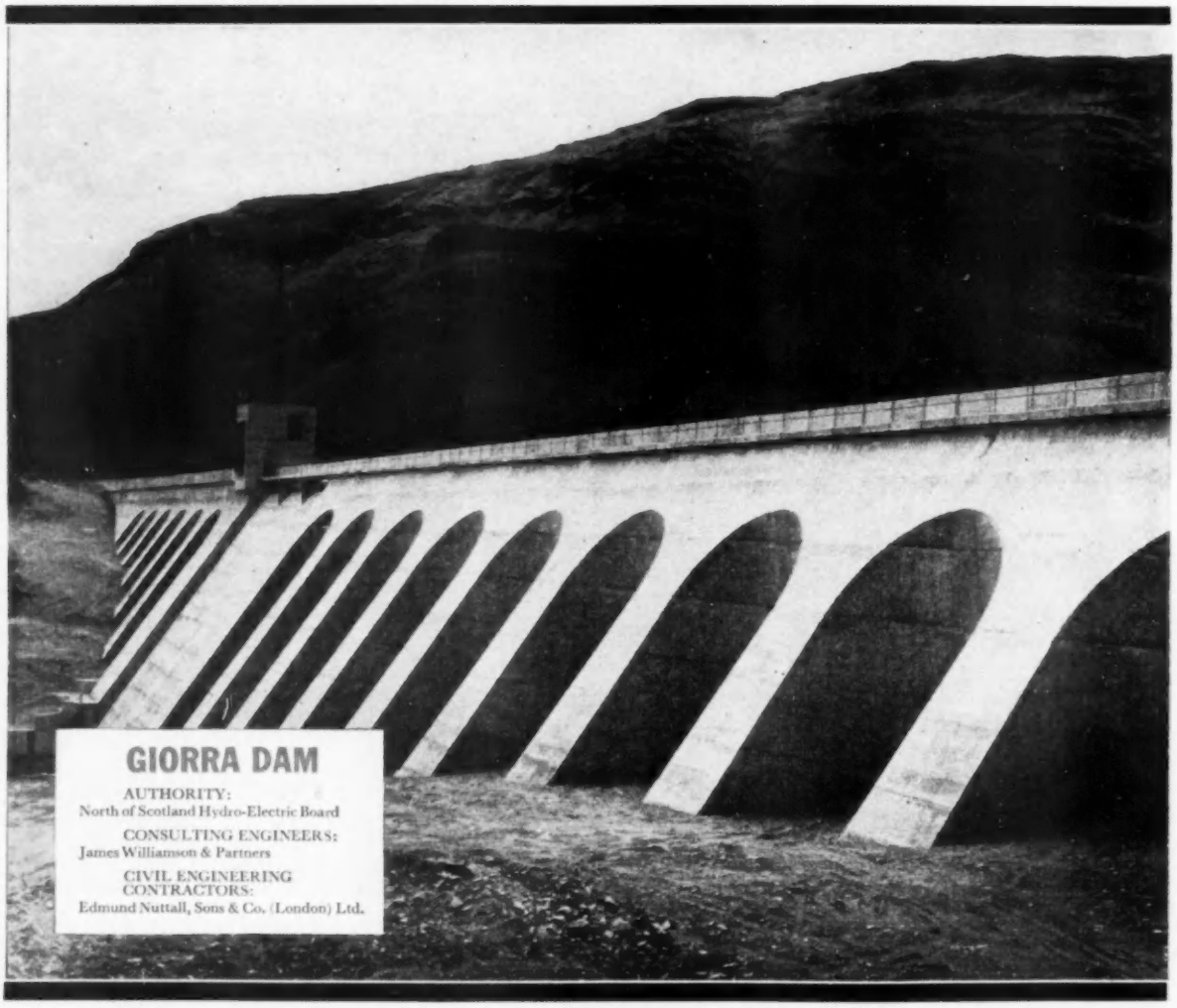
Armstrong Cork Company Ltd Acoustics Department
Carlisle Road, Colindale, London, N.W.9
Tel: COLindale 9744
Also at 24 Fitzwilliam Place, Dublin 2
Tel: Dublin 61907

AT 22

TUNNEL

SUPPLIED THE

CEMENT



THE TUNNEL PORTLAND CEMENT COMPANY LIMITED

105, PICCADILLY, LONDON, W.1 · TELEPHONE: GROSVENOR 4100

TUNNEL CEMENT FOR RELIABLE BAG AND BULK DELIVERIES

CVS-47

THE BUILDER LONDON MEASURED RATES

These prices for new building work in London normally appear in the first issue of each month only. The prices are inclusive of all allowances for National Insurance, Holidays with Pay and Public Holidays, Third Party Risk, Travelling Allowances and Guaranteed Week. They cover a profit of 10 per cent on the prime cost without any addition for establishment charges.

These rates do not include for Foremen and other preliminary items, such as office, sheds, plant and scaffolding, etc., and these must be added accordingly.

The basic cost of the labour and materials used in arriving at the rates has been derived from the 'Current Prices of Materials' published in *The Builder*.

The data given are copyright. While every endeavour is made to ensure accuracy, we do not hold ourselves responsible for any error that may occur.—EDITOR.

EXCAVATOR

All hand labour	*Per yd. cube*									
	Loose earth		*Firm soil*		*Stiff clay*		*Chalk and flints*		*Rock, etc., no blasting*	
	s.	d.	s.	d.	s.	d.	s.	d.	s.	d.
Surface excavation to shallow depths	8	3	10	3	11	9	17	10	46	0
Bulk do. or large trenches, etc., not exceeding 5 ft. deep ...	7	6	9	4	10	9	15	10	42	0
Trenches do. under 4 ft. 6 in. wide and do.	10	0	12	1	14	0	20	8	55	0
Pier holes and similar under 6 ft. square and do.	11	3	13	10	16	2	23	9	61	6
Additional throw for every 5 ft.:										
Bulk excavation	3	9	3	9	5	5	5	5	6	2
Trench ,, ...	5	0	5	0	6	8	6	8	7	8
Pier ,, ...	5	7	5	7	7	6	7	6	8	6
Return, fill and ram	5	2	5	2	6	8	6	8	8	2
Wheeling surplus n.e. 100 yds. run and depositing	7	2	8	0	8	0	8	0	9	0
Underpinning in trenches ...	13	4	18	6	21	6	30	9	—	

		s.	d.
Loading lorries and transporting to tip	Yd. cube	16	5
Basketing out and depositing	,,	10	0
Planking and strutting to sides of surface or basement trenches :			
Depth up to 5 ft.	Ft. sup.		6
,, ,, 10 ft.	,,		8
,, ,, 15 ft.	,,		9
Hardcore :			
Filled-in layers and consolidated	Yd. cube	22	3
do. 4 in. thick	Yd. sup.	3	3
do. 6 in. thick	,,	4	4

CONCRETER

	Basic yard cube rates							
	1:12		1:3:6		1:2:4		1:1½:3	
Aggregate	1½ in. all-in		1½ in.		¾ in.		½ in.	
Concrete in normal foundations : (minimum 8-ton cement loads)—	s.	d.	s.	d.	s.	d.	s.	d.
Portland cement standard specification	67	0	75	3	82	8	87	0
Portland cement rapid hardening	68	3	77	1	85	2	90	4
Water-repellent cement	71	0	81	0	91	0	97	6

		s.	d.
Add to above basis for :			
4 in. surface beds	Yd. sup.		7½
6 in. ,, ,, ...	,,		8½
(If above two items worked around mesh reinforcement, add 5d. per yd. *super.*)			
Foundations in underpinning in short lengths ...	Yd. cube	16	4
Beds and flaunchings to drains	,,	8	2
Pier or stanchion foundations—small	,,	4	1
Sundry small items not exceeding 3 ft. cube in plinths, curbs, padstones, etc.	,,	21	6

REINFORCED CONCRETE

ADD to above 'Basic Yard Cube Rates'

Reinforced concrete including working around reinforcement between formwork and hoisting to normal levels :		s.	d.
Foundations and similar	Yd. cube	5	5
Isolated stanchion or pier bases	,,	6	5
Walls not exceeding 6 in. thick	,,	26	8
,, ,, ,, 12 in. ,, ...	,,	18	8
Suspended floors or flat roofs 4½ in. thick	Yd. cube	21	6
,, ,, ,, ,, 6 in. ,, ...	,,	17	5
,, ,, ,, ,, 9 in. ,, ...	,,	14	10
(Beams attached to floors or flats, *add* 6/8 yd. cube)			
Isolated beams or lintels average 72 sectional inches ...	,,	32	3
Do. average 144 sectional inches	,,	24	1
Columns or stanchions average 72 sectional inches	,,	37	8
,, ,, ,, ,, 144 ,, ,,	,,	29	5
Staircases and landings, etc.	,,	56	1
Shell roofs average 3 in. thick, including labour forming curved surface	,,	133	3
Hollow tile floors :			
Hollow clay tiles 4 in. thick with 1 : 2 : 4 concrete ribs at 14 in. centres with filler tiles and 1½ in. fine concrete screed (excluding reinforcement and form work)	Yd. sup.	19	4
All as above but 6 in. thick clay tiles	,,	23	5
,, ,, ,, ,, 9 in. ,, ,, ,, ...	,,	32	7
Sundry items :			
2 in. concrete (1 : 2 : 4) blinding bed	Yd. sup.	5	0
Spade finish to concrete beds	,,		10
Trowel ,, ,, ,, ...	,,	1	10
Laying to falls and currents	,,	1	0
Hacking concrete by hand	,,	2	8
Hacking concrete by use of proprietary liquids ...	,,	1	7
Damp-proof membrane in three coats with sanded key	,,	4	10
⅜ in. Bitumen expansion joints 4 in. deep in floors ...	Yd. run	3	11

	Mild steel rods (round) cut, bent, hooked, wired and fixed complete (Ex. London Stock)							
	¼ in.		⅜ in.		½ in.		⅝ to 1 in.	
Reinforcement :	s.	d.	s.	d.	s.	d.	s.	d.
Floors beams laid in only ...	88	6	79	4	73	8	70	3
,, ,, ,, wired into frames	100	7	90	0	85	10	80	3
Walls wired into frames	100	7	90	0	85	10	80	3
Columns wired into frames ...	100	7	90	0	85	10	80	3
Staircases wired into frames ...	102	11	92	4	88	2	82	7

Steel mesh fabric reinforcement :		s.	d.
Laid in floors including laps and straight cutting and wiring, etc. :			
Weight 3.94 lb. per yd. sup.	Yd. sup.	4	3
,, 4.71 lb. ,, ,, ,, ...	,,	4	6
,, 9.32 lb. ,, ,, ,, ...	,,	8	4
Raking cutting worth 6 in. material cost per ft. run			
Circular cutting worth 9 in. material cost per ft. run.			
Formwork (Sawn) including strutting, easing and removal and average four times use of timber :			
Soffit of floors and flat roofs	Yd. sup.	16	9
Sloping soffits of stairs	,,	22	10
Barrel-vault soffits of floors and roofs	,,	21	4
Vertical sides of walls	,,	16	0
Battering sides of walls	,,	20	10
Columns	Ft. sup.	2	5
Lintels and beams	,,	2	7
Staircase strings cut to tread and riser	Ft. run	3	7
Edges of concrete floors, etc., up to 12 in. deep per inch in height	,,		2¼
Rebates or similar per inch girth up to 6 in. girth ...	,,		2½
Raking cutting	,,		8½
Extra cost for wrought shuttering and labour rubbing down to leave fair face on concrete ...	Yd. sup.	2	7
Pre-cast Concrete (1 : 2 : 4) including fair face :			
4½ in. x 6 in. reinforced lintels	Ft. run	3	0
9 in. x 6 in. ,, ,, ...	,,	5	3
9 in. x 9 in. ,, ,, ...	,,	8	7
Steel Formwork :			
Steel shuttering forms with patent expanding floor centres and telescopic props not less than four times use on each job with continuous use ...	Yd. sup.	11	6

Partitions : (Minimum 100 yd. super)	*Yd. super rate*			
	2 in.	*3 in.*	*4 in.*	*6 in.*
	s. d.	s. d.	s. d.	s. d.
Clinker concrete slab partitions in cement mortar	9 9	12 6	14 9	—
Cranham terra cotta slab partitions in cement mortar	14 1	17 0	20 0	—
Moler partition block partitions in cement mortar	19 10	23 0	25 11	—
Thermalite-Ytong partition blocks in cement mortar	—	15 8	19 4	27 7
'Phorpres' hollow clay partition blocks in min. of 6-ton loads ...	10 3 (2½ in.)	12 2	15 2	24 11

Cuttings :

Raking cutting and waste = ⅓ of ft. sup. rate
Circular ,, ,, ,, = ½ of ft. sup. rate
Cutting around openings = ⅙ of ft. sup. rate
Cutting and bonding at angles, intersections and ends all at 6d. ft. run.

BRICKLAYER

	Yd. super rates			
	Plain flettons	*Rough stocks*	*Second stocks*	*Blue wire-cuts*
Brickwork in cement mortar (1 : 3) reduced to one brick thick	s. d. 38 5	s. d. 51 8	s. d. 61 4	s. d. 93 10
Deduct if in 1 : 1 : 6 cement-lime mortar	10	10	10	10
Add if in :				
Filling in openings	5 8	5 8	5 11	7 2
Backing to masonry	2 10	2 10	3 0	3 8
Building overhand	1 10	1 10	1 11	2 2
Raising on existing work	2 10	2 10	3 0	3 8
Circular on plan to quick sweep ...	5 6	5 6	5 9	6 10
Small detached piers, plinths, etc.	8 4	8 4	8 9	10 5
Underpinning	5 6	5 6	5 10	6 11
Brick-on-edge walls	13 2	18 2	21 2	—
Half-brick sleeper walls honeycombed	13 9	18 7	—	—
Half-brick walls	21 6	29 3	33 11	51 5
do. with fair face and pointing both sides as work proceeds	24 8	—	37 3	54 6
One-brick wall with fair face and pointing both sides as work proceeds	43 8	—	66 4	99 8
11 in. cavity brick wall with two half-brick skins with 2 in. cavity and three galvanised iron twisted ties to every yd. sup.	46 3	—	71 2	—

Sundry items :		s. d.
Horizontal double slate damp-proof course ...	Ft. sup.	3 4
Vertical ,, ,, ,, ,, ...	,,	4 1
Hessian-base bitumen damp-proof course	,,	1 6
Levelling and preparing for raising on	,,	1 0½
Cutting, toothing and bonding new to old	,,	3 8
Wedging and pinning with slates in underpinning ...	,,	5 2
Rough cutting	,,	6
Cutting and fitting brickwork around steel	,,	6
Bed and point frame one side	Ft. run	4
Rough cutting squint or birdsmouth	,,	6½
Labour plumbing angles on faced work	,,	2½
Rake out and point to lead flashing	,,	7½
,, ,, ,, ,, stepped flashing		10½
Cutting groove for skirting and point	,,	1 7
Shallow chases for small pipes and conduit	,,	1 9
Metal reinforcement 24 gauge 2½ in. wide	,,	4½

Faced work : (Flemish bond) :

Add or deduct for every 10s. per 1,000 difference from basic price of common bricks in Flemish bond in solid work	Yd. sup.	9
do. to half-brick wall in stretcher bond	,,	6½
Add for extra labour to each side in facings and pointing as work proceeds	,,	3 2
do. butt joints raked out and pointed with special mortar	,,	6 3

If built in English bond, add 12½ per cent to above items.

Labours :

Fair cutting	Ft. run	1 1½
Fair circular cutting	,,	1 4
Fair squint or birdsmouth cutting	,,	1 9

Copings :		*9 in. wall*	*14 in. wall*
Brick-on-edge coping in flettons finished fair and pointing as work proceeds ...	Ft. run	s. d. 2 5	s. d. 3 3
Add for every increase by 10s. per 1,000 in cost of superior bricks	,,	1	1½
Add for two courses of roofing tiles unde and cement weather fillets on both sides	,,	3 7	4 4
Cills :			
Two courses of roofing tiles laid breaking joint in cement mortar, set weathering and pointing ...	Ft. run	3 7	
Arches :			
Extra over fletton brickwork for brick-on-end flat arch 4½ in. on soffit and 9 in. high in facings p.c. 350s. per 1,000 and pointing	Ft. run	3 7	
Extra over fletton brickwork for fair axed arch in stock facings p.c. 350s. per 1,000 and pointing (cuttings measured separately)	Ft. sup.	9 3	

CURTAIN WALLING

Curtain walling of hollow, extruded, aluminium alloy mullion and transom units fixed together to form a grid to conventional steel and concrete framework, including glazing complete and a reasonably priced infilling panel and subject to the number of vents, etc., required, a fair average price is from 22/- to 27/6 per ft. sup.

PAVIOR

	Yd. super rates			
	½ in.	*¾ in.*	*1 in.*	*1¼ in.*
Cement screed (1 : 3) to receive pavings	s. d. 4 5	s. d. 5 3	s. d. 6 1	s. d. 6 11

Add to above for :		d.
Trowelling smooth	Yd. sup.	7
Narrow widths or small quantities—add 25 per cent. to plain surfaces : Laying to falls	,,	4

	Yd. super rates			
	1 in.	*1¼ in.*	*1½ in.*	*2 in.*
Granolithic paving (1 : 2½) laid on concrete	s. d. 8 9	s. d. 9 11	s. d. 12 0	s. d. 13 2

Add to above for :

		s. d.
Narrow widths or small quantities—add 25 per cent. to plain surfaces.		
Surface hardening with three coats of silicate of soda	Yd. sup.	1 5
Carborundum finish with 2 lb. per yd. sup. trowelled in	,,	3 0
¾ in. skirting 5 in. high covered at bottom and fair top edge	Ft. run	2 9
Mitres and ends—7d. each.		
Composition flooring ½ in. thick	Yd. sup.	18 0
Terrazzo paving ⅜ in. thick	,,	45 0
Rubber flooring ¼ in. thick	,,	65 0

ASPHALTER

		Mastic BSS 988	*Natural rock BSS 1162*
Asphalt roofing :		s. d.	s. d.
¾ in. flat to falls in two thicknesses on felt underlay on prepared screed	Yd. sup.	14 3	20 0
do. in small quantities or narrow widths	Ft. sup.	2 0	2 9
6 in. high skirting with angle fillet and splayed edge at top	Ft. run	2 7	3 0
External angles on do.	No.	7	7
Internal angles on do.	,,	7	7

Asphalt Damp-Proof Course and Tanking :		*Mastic BSS 1097* s. d.	*Natural rock BSS 1418* s. d.
Vertical damp-proof course in 2 thicknesses	Yd. sup.	21 0	27 0
do. in narrow widths	Ft. sup.	2 6	3 4
¾ in. Horizontal damp-proof course in two thicknesses	Yd. sup.	14 4	19 9
do. in narrow widths	Ft. sup.	1 10	2 6
Vertical tanking in three thicknesses ...	Yd. sup.	25 0	31 4
1½ in. Horizontal do. in three thicknesses	,,	19 3	29 2
Labour double angle fillet	Ft. run	1 4	1 4

DRAINLAYER

	Per yd. run Depth of trench				
	2 ft.	3 ft.	4 ft.	5 ft.	10 ft.
	s. d.	s. d.	s. d.	s. d.	s. d.
Excavate trench, part return fill and ram and remove surplus, inc. planking and strutting. (In firm soil—if in clay or chalk adjust in accordance with previous excavation rates)	8 3	21 7	28 10	36 0	106 3

	Per yd. run		
	4 in.	6 in.	9 in.
	s. d.	s. d.	s. d.
Concrete (1 : 6–1½ in agg.) 12 in. wider than external diameter of pipe in 4 in. bed and benching up on both sides	8 0	8 10	11 3
do. but 6 in. bed and do.	9 7	11 3	13 7
do. but 4 in. bed and surround to pipe	11 7	14 5	19 0
do. but 6 in. bed and surround to pipe	15 7	18 10	23 9
	Per ft. run		
Salt glazed drain pipes laid and jointed in trench (Minimum two-ton loads) :	4 in.	6 in.	9 in.
	s. d.	s. d.	s. d.
'Seconds'	2 10	4 0¼	6 5¼
'Best'	3 1¼	4 5¾	7 3
'Best Tested'	3 10¼	5 6½	9 2¾
'British Standard'	3 3¾	4 9	7 9½
'British Standard Tested'	4 1	5 10	9 7¼
Extra for bends 'Best' quality	4 4	6 5	18 6
Extra for junctions 'Best' quality	7 8	10 10	23 4
Cast-iron drain pipes to BSS 437 laid and jointed with molten lead in trench	15 3	22 6	—
Extra for :			
Short lengths	4 0	5 1	—
Bends and extra joints	22 6	59 0	—
Junctions and do.	46 3	102 8	—
Cast-iron gulley trap with 9½ in. x 6½ in. grating and joint	45 2	—	—
Cast-iron rainwater shoe with vertical inlet, inspection door and bedding and joints ...	70 3	—	—
Cast-iron inspection fittings with single branch fitting one side	164 0	—	—

	Per ft. run		
	3 in.	4 in.	6 in.
	s. d.	s. d.	s. d.
Pitch fibre pipes to BS 2760 and laying and jointing in trench (in loads of £60 to £250)	2 6	3 3	6 2

Manhole items :		4 in.	6 in.
		s. d.	s. d.
Brown glazed stoneware straight, half-round channels	Each	5 4	7 8
do. ordinary channel bends... ...	,,	11 10	16 11
Three-quarter section curved channel bends with splayed ends	,,	15 0	21 6
Cast-iron heavy galvanised steps	Each		13 0
Bedding and sealing medium weight manhole covers and frames (cost of cover to add)...	,,		10 0
do. heavy road covers and frames	,,		13 3

MASON

		Per ft. cube		
		Bath	Portland	York
Stone and all labours fixed in :		s. d.	s. d.	s. d.
Ashlar average 6¾ in. on bed ...	Ft. sup.	32 8	37 5	39 0
Moulded string course 9 in. x 6 in.	Ft. run	28 4	31 0	33 10
Moulded cornice 18 in. x 9 in. ...	,,	71 6	77 6	82 6
Weathered and throated cills :				
9 in. x 3 in.	,,	17 10	19 3	20 7
12 in. x 6 in.	,,	35 9	38 0	40 2
Weathered and throated copings:				
12 in. x 3 in.	,,	19 3	21 0	21 9
14 in. x 6 in.	,,	38 0	43 0	44 6
Plinth rubbed top and face size :				
4½ in. x 9 in.	,,	19 6	21 9	21 0
Plain steps, size 12 in. x 6 in. ...	,,	—	—	35 9
,, ,, ,, 14 in. x 2 in. ...	,,	—	—	16 9
Riser, size 2 in. x 4 in. ...	,,	—	—	8 0
2 in. Sawn paving edges squared in random sizes	Yd. sup.	—	—	98 0
Supplied only :				
Templates and cover stones coped edges	Ft. cube	—	—	33 6

ROOFER

	Yd. sup.
	s. d.
Bituminous built-up roofing in two layers of felt, the first layer 45 lb. and the second 55 lb. to BS 747, covered with limestone or granite chippings n.e. ¼ in. thick	10 0
All as above but in three layers, the first and second layers in felt 45 lb.	13 9

	Steel Tees at	
	2 ft. 0½ in. centres	4 ft. 0½ in. centres
2 in. compressed straw building slabs in standard sizes fixed complete with 18G steel tees with fixing clips to steel structure to form roof decking :	s. d.	s. d.
Areas of 50–100 yds. sup.	27 8	21 4
,, 101–250 ,, ...	26 10	20 9
,, 251–750 ,, ...	26 0	20 3
,, Over 750 ,, ...	25 2	19 4
If 16G steel tees are used—Add to above	1 5½	9

Welsh slating		Per square		
		16in.x8in.	18in.x10in.	20in.x10in.
		s. d.	s. d.	s. d.
Laid with 3 in. lap and 2 zinc nails each slate		382 0	411 0	509 0
Additional labours :				
Top edge cutting ...	Ft. run	9	9	9
Square abutment do.	,,	9	9	9
Double course at eaves...	,,	1 3	1 3	1 3
Raking, cutting and waste	,,	11	11	11
1½ in. x ¾ in. slate battening for last	Per sq.	36 9	33 0	29 3

Roof Tiling		Per square		
		Berkshire hand-made	Stafford machine made	Concrete Tiles
		s. d.	s. d.	s. d.
Roof tiling with 10½ in. x 6½ in. tiles laid to a 4 in. gauge, every fourth course fixed with two galvanised nails		264 0	253 0	163 3
1 in. x ¾ in. tile battening for last		39 6	39 6	39 6
Additional labours :				
Top edge cutting	Ft. run	9	9	9
Square abutments do. ...	,,	9	9	9
Raking cutting to hips ...	,,	11	11	11
Eaves course	,,	11	11	11
Half-round ridge and hip tiles ...	,,	2 11	2 11	2 11

CARPENTER AND JOINER

	Ft. cube			
	Plates	Joists	Rafters & Partitions	Roof trusses
	s. d.	s. d.	s. d.	s. d.
Softwood carcassing, including all waste, nails, hoisting and fixing	17 1	19 10	22 10	27 4

	Per square		
	¾ in.	1 in.	1¼ in.
Boarding and Flooring : (Softwood) :	s. d.	s. d.	s. d.
Rough boarding to flats and roof... ...	126 9	162 3	197 7
Softwood plain edge flooring cleaned off	156 9	175 9	213 10
Tongued and grooved flooring cleaned off	170 9	197 7	239 10

		s. d.
Extra for 2 in. x 3 in. average firrings	Per sq.	81 7
Herringbone strutting to 2 in. x 8 in. joists	Ft. run	1 10
1 in. gutter boarding and bearers	Ft. sup.	3 9
Raking, cutting and waste on 1 in. flooring	Ft. run	9
Composition Boards, etc. :		
⅛ in. hardboard to BS 1142 fixed to vertical battens	Yd. sup.	6 9
½ in. insulation board to BS 1142 do. do.	,,	6 11
1 in. woodwool slabs fixed to flat or sloping soffits	,,	9 7
2 in. compressed straw building slabs in standard sizes fixed to wood bearers to flat or sloping surfaces in quantities of 101 to 250 yds. super	,,	14 8
¼ in. flat asbestos sheeting fixed vertically	,,	11 0

Wood Block Flooring :

		s. d.
1 in. nominal West African mahogany flooring laid herringbone pattern in mastic...	Yd. sup.	34 6
1 in. do. Agba	,,	34 6
1 in. do. Sapele	,,	36 3
1 in. do. Beech	,,	39 0
1 in. do. Rhodesian Teak	,,	52 0

Extra for preparing and polishing 2/3 yd. sup.

	Sectional area		
	n.e. 4 in.	4–6 in.	ex. 6 in.
Skirtings :	s. d.	s. d.	s. d.
Softwood skirting with rounded or moulded edge, planted on including all labours in short lengths, mitres, etc., per in. in sectional area	3¾	3¼	2¾

Labours over 6 in.—Mitres = 1 ft. run. Return mould ends = 1 ft. 6 in. run
Sawn grounds nailed 3¼d. ft. run. If plugged + 7d. ft. run.

	Ft. super	
	Large sqrs.	Small sqrs.
Sashes and Frames : (Softwood) :	s. d.	s. d.
1½ in. rebated, rounded or moulded fixed	3 7	5 9
2 in. ,, ,, ,, ,, ...	4 0	6 2
Add for hanging on butts ... ... each	2 9	2 9
Double-hung sashes and frames with oak cills, purpose-made and not less than 1 doz. in each order:		
Quantities under 1 doz.—add up to ½ according to quantity. (Average size 4 ft. x 5 ft.)	10 8	14 6

Extra cost of boxed mullions 1s. ft. sup.
Extra for hanging sashes with lines, weights and axle pulleys 47s. each.

	Ft. super			
	1¼ in.	1½ in.	1¾ in.	2 in.
Doors: (All-purpose-made) (Softwood)	s. d.	s. d.	s. d.	s. d.
Softwood skeleton framed with hardboard flush both sides (standard internal pattern)	3 7	4 0	4 5	4 10
Framed, ledged and braced	—	5 1	6 2	6 4
Four panel square framed both sides	4 10	5 7	6 7	6 10
Add for each side moulded on last ...	6	6	6	6
do. flush framed	1 0	1 1	1 3	1 3
do. bead and butt do. ...	1 3	1 4	1 6	1 6
do. bolection moulded do. ...	1 6	1 6	1 6	1 6
do. raised and fielded do. ...	—	2 4	2 4	2 4

Rebated and beaded meeting stile 4d. ft. run.
Dwarf doors add up to 50 per cent. according to size.

	Sectional area		
	n.e. 6in.	6-12 in.	ex. 12in.
Window and Door Linings and Frames :	s. d.	s. d.	s. d.
Softwood linings per inch of sectional area	4½	4	3½
Add for cross-tongueing	—	1	¾
Frames, including rebating and once moulded or equivalent of two run labours, per sectional inch	4	3½	3

Transomes and cills plus 10 per cent. on frames.
Additional run labours plus 1½d. per ft. run.

	Per ft. run			
	Sectional area			
	1 in.	2 in.	4 in.	6 in.
Softwood Bearers, Fillets and Mouldings, etc. :	s. d.	s. d.	s. d.	s. d.
Wrot grounds, bearers, fillets, etc.	4½	7	11	1 3
Mouldings, picture rails, architraves, etc.	5	7½	11½	1 4
Framed legs and bearers or similar	9	11	1 4	1 10
Glazing heads, mitred and bradded	6	8½	—	—
Add for plugging	6	6	6	6
Add for brass cups and screws ...	2½	2½	2½	2½

	Thickness			
	¾ in.	1 in.	1¼ in.	1½ in.
Shelving (Softwood) :	s. d.	s. d.	s. d.	s. d.
Slat shelving 2 in. wide spaced 1 in. between ... ... Ft. sup.	2 0	2 3	2 8	3 1
9 in. shelving... ... ... Ft. run	2 0	2 4	2 10	3 6
Shelving over 9 in. wide ... Ft. sup.	2 7	2 11	3 7	4 2

1 in. x 2 in. chamfered bearers in short lengths, plugged, each 2s. 3d.

	Ft. super	
	1 in. treads	1¼ in. treads
Staircases (Softwood) :	s. d.	s. d.
Treads and risers with moulded nosings, glued, blocked and bracketed on carriages	6 3	7 0
Cross-tongued winders	8 3	9 4

		s. d.
Strings, framed	Ft. run	4 9
Housings for treads and risers	Each	3 6
1 in. x 1 in. sq. balusters framed each end on rake ...	,,	4 1
3½ x 3½ in. sq. framed newel...	,,	5 2
Mahogany handrail, average 3 in. x 3 in.	Ft. run	8 10
,, ,, ramped	,,	26 0

FIXING ONLY IRONMONGERY

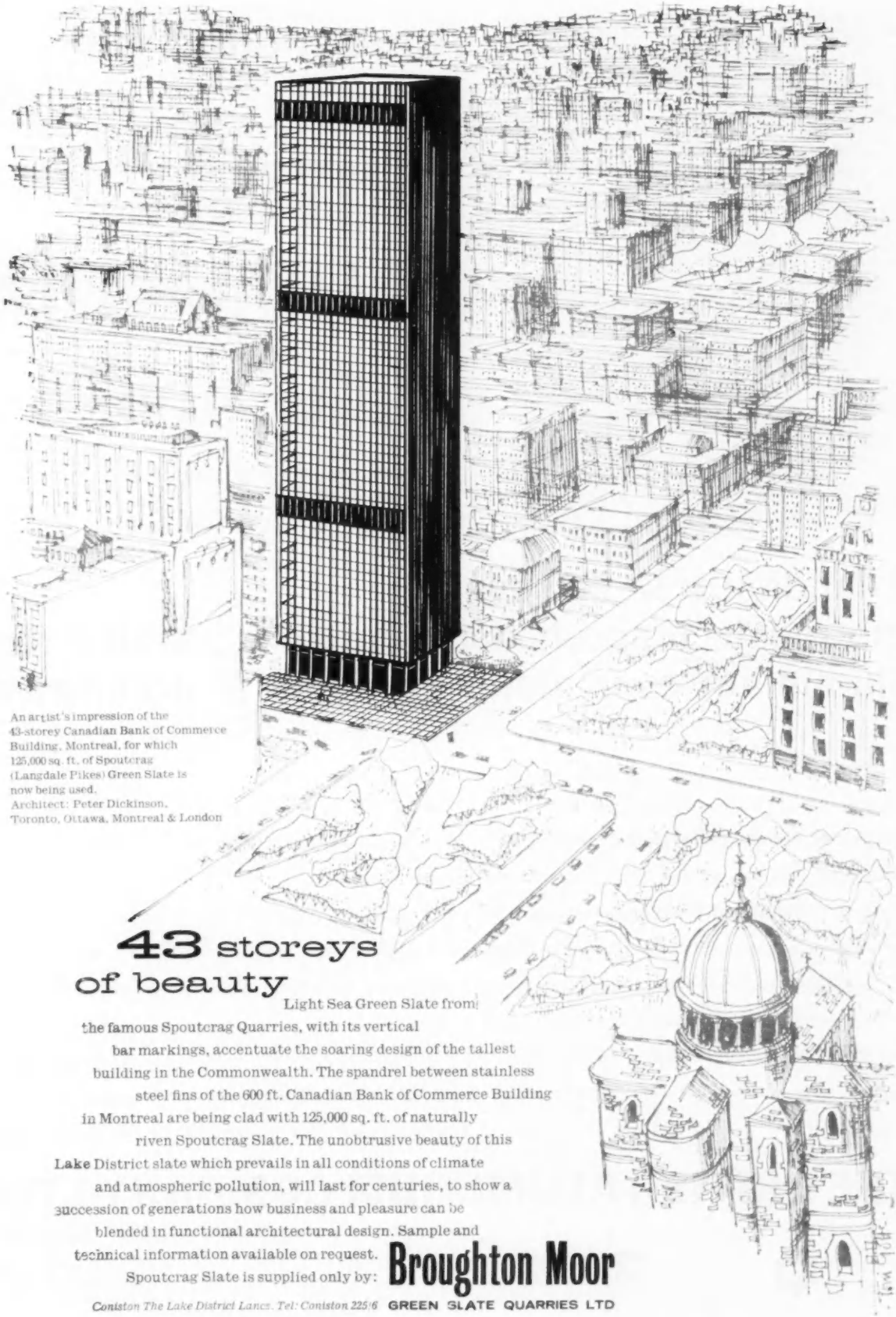
All to Softwood :	Each s. d.		Each s. d.
Barrel bolts	1 9	Rim locks	5 2
Flush bolts	6 3	Mortice locks	11 0
Sash fasteners	3 4	Overhead door springs...	14 6
Casement fasteners ...	2 3	Patent floor springs and oil	36 3
Cupboard locks	5 0		

FOUNDER AND SMITH

		s. d.
Fabricated steelwork of basis section including hoisting and fixing at various levels :		
Rolled steel joists	per cwt.	90 0
Compound girders	,,	97 0
Stanchions	,,	102 3
Compound stanchions	,,	108 0
In roofwork—trusses and purlins ... ... (Average prices, not for awkward work)	,,	122 0
Cleats, brackets, packing pieces, etc., in connections, including rivets and bolts	,,	147 6
Wrot iron framed cat ladders	,,	148 0
	to	168 0

PLUMBER

		Per ft. run		
		3 in.	4 in.	5 in.
Cast iron rainwater goods : (Under 5 cwt. lots) :		s. d.	s. d.	s. d.
Half-round gutter jointed in red lead and bolted and fixed with iron brackets		3 3	3 11	4 9
Extra for stop ends	each	2 5	3 0	3 11
do. angles or outlets	,,	5 10	6 2	7 3
O.G. gutter of ⅛ in. metal fixed as above		3 9	4 4	5 1
Extra for stop ends	each	2 9	3 4	4 4
do. angles or outlets	,,	6 7	6 9	8 1
		2 in.	3 in.	4 in.
Rainwater pipe jointed in red lead and tow fixed to brickwork with pipe nails and distance pieces: ⅛ in. metal		4 6	5 1	6 7
Extra for shoes	each	5 0	6 10	9 2
do. bends	,,	5 11	8 6	11 0
do. junctions	,,	8 1	11 6	15 0
Cast iron soil and waste pipes : (Under 5 cwt. lots) :		2 in.	3 in.	4 in.
Soil, waste or ventilating pipes with caulked joints fixed to brickwork with pipe nails and distances pieces : 13/64 in. metal		6 5	7 6	9 10
Extra for bends	each	14 1	16 9	21 0
do. junctions	,,	17 5	24 3	30 5
do. oval access door to any fitting	,,	16 6	16 6	21 3
Extra cost for type 'E' holderbat fixing and cutting and pinning to brickwork	ft. run	1 6	1 7	1 7½



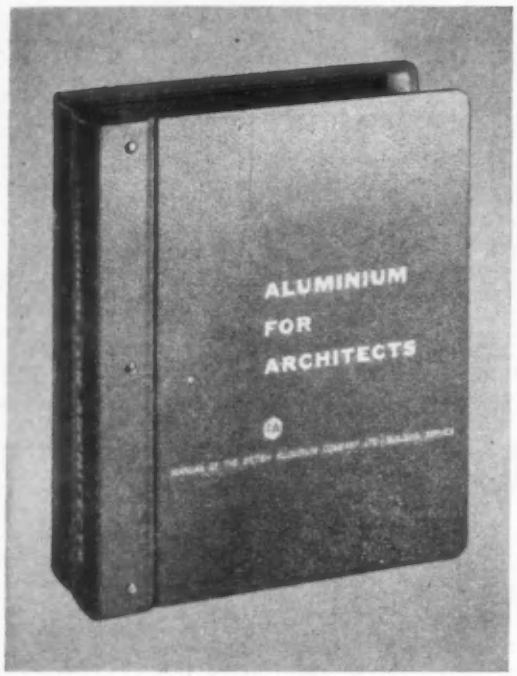
An artist's impression of the 43-storey Canadian Bank of Commerce Building, Montreal, for which 125,000 sq. ft. of Spoutcrag (Langdale Pikes) Green Slate is now being used.
Architect: Peter Dickinson, Toronto, Ottawa, Montreal & London

43 storeys of beauty

Light Sea Green Slate from the famous Spoutcrag Quarries, with its vertical bar markings, accentuate the soaring design of the tallest building in the Commonwealth. The spandrel between stainless steel fins of the 600 ft. Canadian Bank of Commerce Building in Montreal are being clad with 125,000 sq. ft. of naturally riven Spoutcrag Slate. The unobtrusive beauty of this Lake District slate which prevails in all conditions of climate and atmospheric pollution, will last for centuries, to show a succession of generations how business and pleasure can be blended in functional architectural design. Sample and technical information available on request.

Spoutcrag Slate is supplied only by: **Broughton Moor**

Coniston The Lake District Lancs. Tel: Coniston 225/6 GREEN SLATE QUARRIES LTD



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	Soakers	Flats	Gutters, valleys, etc.	Flashings	Stepped Flashings
External leadwork: (Over 1 ton):	s. d.	s. d.	s. d.	s. d.	s. d.
Milled lead and labour in per cwt.	141 4	166 11	179 11	186 5	199 5

Labours, etc.: Double welt	ft. run	1 0
Copper nailing: Open	,,	7
Close	,,	1 0
Soldered seam	,,	6 7

		2 in. x 10 lb.	3 in. x 15 lb.	4 in. x 19 lb.
Lead pipes: (Over 1 ton):		s. d.	s. d.	s. d.
Soil, waste and ventilating pipes, fixed to walls with plain lead tacks and brass screws	per ft.	10 11	14 4	18 9
Extra for: Lengths under 4 ft. ...	,,	3 0	3 6	4 6
Bends	No.	12 6	23 9	24 10
Wiped soldered joints	,,	20 0	29 7	33 7
,, branch joints	,,	24 4	35 0	39 3

	Per ft. run					
	½ in.	¾ in.	1 in.	1¼ in.	1½ in.	2 in.
Lead pipes including running joints:	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.
Main in trench ...	3 4	5 0	7 5	9 3	11 9	16 5
do. fixed with hooks	4 0	5 10	8 8	10 8	13 4	18 3
Service and do. ...	3 5	5 0	6 11	8 3	10 4	13 4
Waste and do. ...	2 8	3 11	5 7	6 7	8 4	10 11
Extra for lengths under 4 ft. ...	9	1 0	1 6	1 9	2 0	2 7
Soldered stop ends ... ... No.	2 6	3 0	3 9	4 6	5 2	6 8
do. joints to fittings ... ,,	6 6	9 2	11 0	13 4	16 3	19 9
do. branch joints... ... ,,	7 2	10 1	12 2	14 10	17 11	21 8
Brasswork:						
Union with red lead joint to iron and soldered joint to lead ... ... ,,	12 0	14 10	18 6	22 9	27 10	40 6
Stop-cock and soldered joints... ... ,,	21 0	30 8	43 7	70 0	89 6	167 5
Bib-cock do. ,,	18 6	24 9	—	—	—	—
Ball-valve do. ,,	18 0	30 4	43 5	71 7	89 6	—
Steel tubing:						
Galvanised tubing Class C laid in trench	2 4	2 6	2 10	4 1	5 6	6 6
do. Class B fixed to walls, etc. ...	2 7	3 0	3 4	4 5	6 2	7 1
Extra for bends No.	5 0	5 9	7 7	9 10	11 8	17 2
Tees ,,	5 8	6 9	8 2	10 10	12 10	18 8
Red lead joints ,,	3 6	3 9	4 1	4 7	5 1	5 7
Copper tubes and fittings: gauge	19	19	18	18	18	17
Tubes and fixing to walls	2 7	3 4	4 6	5 5	6 4	9 2
Extra for lengths under 4 ft. ...	7	9	11	1 0	1 3	1 6
Brass capillary type fittings:						
Couplings—copper to copper ...	3 8	4 4	6 9	8 9	11 2	15 3
Bends— do. ...	5 10	7 1	8 11	11 7	17 2	32 3
Tees— do. ...	8 7	9 11	14 2	19 2	26 3	36 4
Stop cocks	23 7	33 1	60 2	101 2	152 3	250 4
Tank connectors ...	4 9	5 4	8 1	10 2	14 3	18 4

PLASTERER

		s. d.
Expanded metal lathing ⅜ in. mesh 24 gauge ... ... (not including hangers for suspended work)	Yd. sup.	8 6
Lime Plastering: Render, float and set	,,	9 11
Sirapite Plastering: Render in Portland Cement, Lime and Sand and set in Sirapite	,,	7 9
Sirapite Plastering: Render and set in Sirapite plaster to manufacturer's instructions	,,	8 0
Paristone Plastering: do. do.	,,	8 3
Carlite Plastering do. do.	,,	8 10
Portland Cement: Plain face trowelled smooth ...	,,	9 11
Keenes: Render in cement and lime and set in Keenes	Yd. sup.	10 6
Extra for dubbing out ¼ in. thick 1/11, ½ in. thick 3/11 ⅜ in. Plasterboard and setting coat ...	,,	8 11
Narrow widths: Up to 3 in. wide add 300 per cent. Do. 3-6 in. do. 200 per cent. Do. 6-12 in., add 75 per cent.		
Labours: Arris 5½d. Fair edge 6½d. Quirk 10d.		
Plaster Moulded Cornices: 6 in. girth and under ...	Ft. run	3 1
Over 6 in. girth, add 3½d. per in.		
Tyrolean Rendering on and including Portland Cement and Sand backing	yd. sup.	12 8
Wall Tiling: 6 in. x 6 in. white glazed ¼ in. thick ...	,,	45 0
Extra for rounded angle or birdsbeak	Ft. run	4
do. rounded edge tile	,,	5

GLAZIER

	Wood sashes with beads or putty
	s. d.
Clear sheet glass ordinary quality:	
18 oz.	1 5
24 oz.	1 7½
26 oz.	1 10½
32 oz.	2 3½
Obscured glass:	
⅛ in. Figured rolled White group 1	1 10½
,, ,, ,, group 2	2 2½
,, ,, Standard tints	2 6½
⅛ in. Pinstripe, Hammerstripe, Reeded, Reedlyte and luminating group 3	2 4
¼ in. Wired Cast	2 7½
¼ in. Georgian Wired Cast	2 8
¼ in. Polished Plate Glass, G.G. Quality:	
In plates not exceeding 2 ft. sup.	6 8½
,, ,, ,, 5 ft. sup.	7 8½
,, ,, ,, 45 ft. sup.	9 8½
,, ,, ,, 100 ft. sup.	9 7½
Extra on all above:	
For glazing with screw beads ft. sup.	5½
(Excepting polished plate over 12 ft. super on which no extra is charged)	
For glazing with metal sashes with putty	1
Glazing bedded in washleather	Ft. run 8½

PAINTER

		s. d.
Limewhiting: Prepare and two coats on brick ...	Yd. sup.	1 2
Whitening: Prepare and two coats on plaster ...	,,	1 5
Washable distemper: Prepare and two coats on plaster	,,	1 11
Emulsion paints: Prepare and two coats on plaster ...	,,	3 1

Painting with oil colours:	Yd. super 1 coat	2 coats	3 coats
	s. d.	s. d.	s. d.
Prepare and paint on plaster	2 3	4 3	6 4
On Steel:			
Plain surfaces	1 10	3 7	5 5
Roof trusses...	2 4	4 7	6 11
Metal casements divided into squares ...	3 4	6 8	10 0
do. divided into large squares ...	2 7	5 0	7 6
Opening edges ... ... Each	8	1 3	1 10
Small pipe ... ... Yd. run	6	1 0	1 5
Rainwater pipe ... ... ,,	1 0	1 11	2 9
Gutter ... ... ,,	1 4	2 6	3 8

	Knot prime and stop	Add for each extra coat
On Woodwork:	s. d.	s. d
General surfaces ... ... Yd. sup.	2 10	2 3
On work not exceeding 3 in. girth ... Yd. run	4½	3½
Add to last for every additional 3 in. in girth	3½	2½
Sash squares on one side ... ... Doz.	5 6	4 6
Large ,, ,, ,, ... ,,	8 6	8 0
Opening edges ... ... No.	9	8

		s. d.
Oiling Hardwood: Two coats with linseed oil... ...	Yd. sup.	1 4
Creosote: Two coats on woodwork	,,	1 7
Polishing—New Work:		
Staining and wax polishing hardwood	Ft. sup.	1 1
Staining, bodying in and full french polishing on hardwood	,,	2 6
Old Work previously polished:		
Preparing old work and repolishing	,,	1 2
Stripping, preparing and repolishing	,,	3 1
Papering:		
Preparing, sizing and hanging lining paper	per piece	10 7
do. do. Wallpaper, p.c. 10s.	,,	19 8

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Sigmund Thermopak Accelerator is trumps in pumps because of its long life—because of its dependability—because of its silent operation. Indeed, for any small bore system you won't find a better pump than the Thermopak. There is balanced hydraulic and electro-magnetic thrust (no dependence on thrust bearings, reducing wear) and perfect alignment. The electrical windings are temperature impregnated, making them moisture proof and virtually indestructible.

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THE BUILDER CURRENT PRICES

THE information given on these pages has been specially compiled for *The Builder* and is copyright. It is the intention that the details given should indicate fair average prices of materials, not necessarily the highest or the lowest. The prices apply to large quantities of materials loaded at works, delivered at London Stations or at site in London Area as stated. Prices for smaller quantities ex merchant's warehouse will necessarily be higher so as to include the stocking and handling costs involved. It is recommended that the prices of materials should be confirmed by inquiry from suppliers and merchants.

AGGREGATES AND SAND

Delivered site in full lorry loads. Average of prices for Boroughs of Westminster, Paddington, Holborn and St. Pancras.

		£	s.	d.
Pit Ballast	per yd.	1	5	5
Pit Sand	,,	1	3	8
Washed Sand	,,	1	6	9
¾ in. Shingle	,,	1	4	3
¾ in. Broken Brick	,,	1	0	9
Pan Breeze	,,	1	5	0
Fine or Coarse Foamed Slag Aggregate	per ton	3	8	0

2 yds. of fine and 2.6 yds. of coarse per ton.

CEMENT, etc.

Including non-returnable jute sacks or paper bags.

Best British Portland Cement. Standard Specification delivered Charing Cross area.

		£	s.	d.
8-ton loads and upwards, site	per ton	5	16	0
Below 8 tons down to 4 tons, site	,,	6	8	0
Below 4 tons down to 2 tons, site	,,	6	12	0
Below 2 tons down to 1 ton, site	,,	6	14	0
Rapid-Hardening Cement in 8-ton loads and upwards to site	,,	6	6	6
Below 8 tons down to 4 tons, site	,,	6	18	6
Below 4 tons down to 2 tons, site	,,	7	2	6
Below 2 tons down to 1 ton, site	,,	7	4	0

Aquacrete Water Repellent Cement. 32s. 6d. per ton on ordinary cement prices.

Sulphate Resisting Cement. 32s. 6d. per ton on ordinary cement prices.

Red, Buff or Khaki Colocrete in 8-ton lots	,,	8	16	0

Other colours according to colour.

In 4-ton lots from 313s. 3d. to 783s. 3d. per ton.

White Portland Cement	,,	14	0	9
Under 1 ton	per cwt.		17	0
417 Cement (Ultra Rapid Hardening) in 8-ton lots and upwards	per ton	7	8	6

Super Cement (Waterproof), 32s. 6d. per ton above Portland Cement.

Cullamix Tyrolean Finish, £11 13s.3d. to £14 8s.3d. (1-ton loads and upwards).

Ciment Fondu and Lightning Brands High Aluminous cement, 6-ton lots and up	,,	15	14	6
Stourbridge Fireclay, 6-ton loads at Railway Depot, London	,,	6	19	0
Stourbridge Fireclay, 6-ton loads (London sites)	,,	7	12	0
Moler Mortar Powder for Flue Bricks (London sites)	per cwt.	1	6	0

BRICKS

Full Loads		£	s.	d.
First Hard Stocks	per 1,000	16	19	6
Second Hard Stocks	,,	14	18	6
Mild Stocks (Kiln Burnt)	,,	11	5	0
Mild Stocks	,,	11	0	0

All loaded free into lorry at the works. The question of haulage is still very difficult and prices must be obtained from job to job.

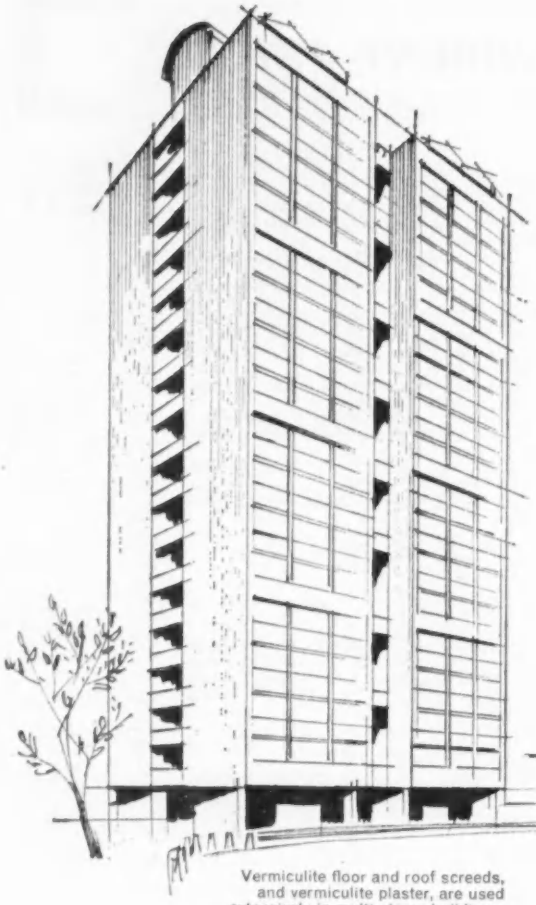
2½ in. Nominal Fletton Bricks to sites in W.C. district:				
Commons	,,	6	12	0
Cellular Commons	,,	6	12	0
Keyed do.	,,	6	14	0
Rustics	,,	8	12	0
Cellular Rustics	,,	8	12	0
Single Bullnose Commons	,,	8	14	6
Sandfaced	,,	9	12	0
Tuscans	,,	10	7	0
Saxons	,,	10	15	0
Golden Buffs	,,	11	2	0
Dapple Light Facings	,,	11	9	6
Heather Facings	,,	11	5	0
Best Blue Pressed Staffs (London sites)	,,	34	0	6
do. Bullnose (London sites)	,,	34	19	6
Blue Wire Cuts (London sites)	,,	29	19	6
Midhurst Lime Bricks (London sites)	,,	11	13	0
Uxbridge Whites (London sites)	,,	12	3	6
Special Purpose Sandlime Bricks (London sites)	,,	9	2	0
Best Stourbridge Fire Bricks:				
2½ in. (London stations)	,,	32	14	0
2½ in. (London sites)	,,	33	2	9
3 in. (London stations)	per 1,000	39	4	6
3 in. (London sites)	,,	39	15	0
2⅞ in. Moler Flue Bricks (London sites)	,,	31	0	0
2⅞ in. Machine-made Sandfaced Red Facings (London sites)	,,	18	19	0
2⅞ in. Machine-made Multi Red Facings (London sites)	,,	19	4	0
2⅞ in. Hand-made Sandfaced Red Facings (London sites)	,,	20	17	6
2⅞ in. Hand-made Sandfaced Multi-Colour Facings (London sites)	,,	20	17	6
Hand-made Sandfaced Cherry Red Facings, Berkshire district (London sites)	,,	21	5	0
Hand-made Sandfaced Multi-Colour Facings, Berkshire district (London sites)	,,	21	5	0
Rubber Bricks for gauged arches (London sites)	,,	52	5	0
2⅞ in. Surrey Clamp Burnt Multi Stock Facings (London sites)	,,	16	15	0
2⅞ in. Surrey Kiln Burnt Multi Stock Facings (London sites)	,,	18	7	6
Glazed Bricks (London sites), White, Ivory, Brown:				
Stretchers	,,	64	0	0
Headers	,,	63	0	0
Quoins, Bullnose and 4½ in. Flats	,,	80	0	0
Double Stretchers	,,	85	0	0
Double Headers	,,	77	10	0
One side and two ends	,,	87	0	0
Two sides and one end	,,	89	10	0
Splays and Squints	,,	83	0	0

Cream and Buff, £3 extra over White. Other colours, hard glaze, £8 10s. 0d. extra over White. All above prices plus 47½% for Best quality and plus 47½% less 10% for Second quality.

PARTITION SLABS, etc.

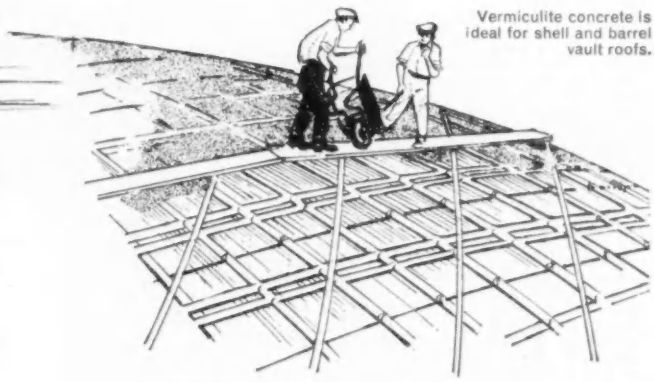
Delivered Central London Area. (W.C. District).

			£	s.	d.
HOLLOW CLAY PARTITION BLOCKS (Keyed)					
Minimum lorry loads					
*2½ in.	140 yds.	per yd. sup.		4	7
BUILDING BLOCKS (Keyed)					
*3 in. (6 cavity)	110 yds.	,,		5	9
*4 in. (6 cavity)	90 yds.	,,		7	3
6 in. (8¾ in. × 5¾ in.)	1,250 blocks	per 1,000	28	9	0
* Half blocks at no extra charge.					
CLINKER CONCRETE					
2 in.	100 yds.	per yd. sup.		4	0
2½ in.	85 yds.	,,		4	7
3 in.	75 yds.	,,		5	8
4 in.	55 yds.	,,		7	0
CRANHAM TERRA COTTA					
2 in.		,,		7	5
2½ in.		,,		8	4
3 in. Load bearing quality		,,		9	6
4 in. do. do		,,		11	6
MOLER PARTITION BLOCKS					
2 in.	150 yds.	,,		12	9
2½ in.	120 yds.	,,		13	9
3 in.	100 yds.	,,		14	9
4 in.	90 yds.	,,		17	0
LIGHTWEIGHT CONCRETE BUILDING AND PARTITION BLOCKS OF VARIOUS SOURCES OF MANUFACTURE					
2 in.	100 yds.	per yd. sup.		5	4
2½ in.	80 yds.	,,		6	5
3 in.	65 yds.	,,		7	5
4 in.	50 yds.	,,		9	4
4½ in.	44 yds.	,,		10	2
6 in.	33 yds.	,,		14	5
THERMALITE-YTONG PARTITION BLOCKS					
2½ in.	144 yds.	,,		7	0
THERMALITE-YTONG LOAD-BEARING INSULATING BLOCKS					
3 in.	120 yds.	per yd. sup.		8	5
4 in.	90 yds.	,,		11	0
5 in.	72 yds.	,,		13	9
6 in.	60 yds.	,,		16	6
8½ in.	42 yds.	,,	1	3	8
FLOOR BLOCKS AND FILLER TILES					
Floor Blocks 12 in. × 12 in. delivered in full lorry-loads:					
3 in.		per 1,000	35	14	0
4 in.		,,	38	9	0
5 in.		,,	46	1	0
6 in.		,,	52	12	0
7 in.		,,	64	12	0
8 in.		,,	75	9	0
9 in.		,,	83	2	0
10 in.		,,	92	0	0
Filler Tiles in multiples of 10 tiles per 1,000 multiples:					
12 in. × 3 in. × ⅝ in.		,,	43	13	0
12 in. × 4 in. × ¾ in.		,,	75	7	0
10 in. × 5 in. × ⅞ in.		,,	75	7	0



Vermiculite floor and roof screeds, and vermiculite plaster, are used extensively in multi-storey buildings.

better buildings deserve better INSULATION



Vermiculite concrete is ideal for shell and barrel vault roofs.

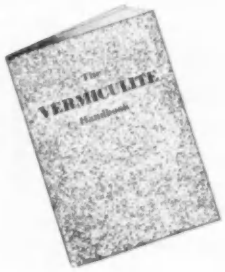
Vermiculite Concrete
'k' value = 0.65—1.3 BThU
Density 22—45 lb/cu. ft.

Vermiculite Plaster
'k' value = 0.90—1.3 BThU
Density 30—45 lb/cu. ft.

Loosefill Vermiculite
'k' value = 0.43 BThU
Density 4—8 lb/cu. ft.

A new and comprehensive handbook is available on request from Mandoval Limited, Barrington House, 59 Gresham Street, London, E.C.2. Tel: Metropolitan 9101, who, under the management of the Rio Tinto Mining Group, are world distributors of vermiculite ore.

Loosefill vermiculite is recommended for domestic insulation.



LIGHT—INSULATING—FIRE RESISTANT

VERMICULITE

FOR BETTER ROOF SCREEDS, FLOOR SCREEDS, PLASTERS AND LOOSEFILL

STONEWARE DRAIN PIPES, etc.

Glazed Stoneware Standard List (November, 1956).

		4 in.	6 in.	9 in.
Pipes, 2 ft. lengths	per ft.	1/8	2/6	4/6
Bends	each	5/–	7/6	20/3
Junctions	,,	8/4	12/6	27/–
Gullies with 4 in. outlets	,,	12/6	13/9	22/6

The following are the percentages to be added to the Standard List (November, 1956) prices delivered London Area.
Delivered ex Merchants Wharf or Depot.

	Over 2 tons	Over 100 pieces Under 2 tons	Under 100 pieces Under 2 tons
Best Quality ...	NET	+ 22½ %	+ 27½ %
BSS Best Quality...	+ 10 % NET	+ 10 % + 22½ %	+ 10 % + 27½ %
Tested Quality ...	+ 37½ % NET	+ 37½ % + 22½ %	+ 37½ % + 27½ %
BSS Tested Quality	+ 47½ % NET	+ 47½ % + 22½ %	+ 47½ % + 27½ %

		£	s.	d.
3 in. Land Drain Pipes (in 12 in. lengths)	per 1,000	12	10	6
4 in. do. do.	,,	16	16	0
6 in. do. do.	,,	34	10	0
9 in. do. do.	,,	64	19	0

DAMP COURSE

		£	s.	d.
Hessian base bitumen 7 lb. per yd. sup. in 24 ft. rolls cut to wall widths in lots of £6 value and over delivered London area	per yd. sup.		3	5
Asbestos base do. 7 lb. per yd. sup. do. do.	,,		5	2
Lead lined bitumen do. 9½ lb. per yd. sup. do. do.	,,		12	2
18 in. × 9 in. British damp course slates	per 1,000	43	8	11
14 in. × 9 in. do. do.	,,	32	8	2
9 in. × 9 in. do. do.	,,	18	18	9
18 in. × 4½ in. do. do.	,,	19	19	9
14 in. × 4½ in. do. do.	,,	15	18	3
9 in. × 4½ in. do. do.	,,	10	14	3

STONE

		£	s.	d.
Bath Stone				
Monks Park	per ft. cube		10	3
St. Aldhelm Box Ground	,,		11	6
Delivered in railway trucks at South Lambeth B.R. Western Region.				
Doulting Stone Random Blocks. Delivered London area	,,		10	10
Beer Stone. Delivered London area	,,		10	6
Portland Stone—				
Brown Whitbed in random blocks, 20 ft. average delivered in railway trucks at Nine Elms, B.R. Southern Region	,,		9	10
Yorkshire Stone—Blue Robin Hood Quality. Delivered to site London in 6-ton lots.				
9 in. × 3 in. Rubbed, weathered, throated and stolled cills	per ft. cube	4	5	10
12 in. × 6 in. do. do. do.	,,	3	1	2
12 in. × 3 in. Plain coping, twice throated	,,	2	7	6
12 in. × 3 in. Weathered and twice throated coping	,,	3	3	3
14 in. × 6 in. do. do. do.	,,	2	17	0
4½ in. × 9 in. Plinth rubbed on top and face ...	,,	2	11	0
3 in. sawn two sides Slabs, random sizes	per ft. sup.		9	1
Templates and Cover Stones, 3 in., 4 in. and 6 in. thick, edges coped for rendered brickwork ...	per ft. cube	1	11	3
do. do. fair one edge for fair faced brickwork	,,	1	17	0
Hard York—				
12 in. × 2 in. Square Steps, rubbed on top and edge	per ft. run		11	0
14 in. × 3 in. Round-nosed Steps, rubbed on top and front	per ft. cube	2	18	3
12 in. × 6 in. Plain Steps, rubbed top and front	,,	2	11	0
2 in. Rubbed and Jointed Paving, given sizes ...	per ft. sup.		10	3
2 in. Sawn Paving, edges squared, in random sizes	per yd. sup.	3	12	0

TILES AND PANTILES

Delivered London area by road in 6 tons or over per 1,000.

	£	s.	d.
Machine-made Pantiles and French pattern Tiles from Lincolnshire district	35	16	6
Hand-made Pantiles Berkshire district	64	10	0
Hand-made Double Roman Bridgwater district	78	2	9
Hand-made 10½ × 6½ tiles Berkshire district	18	0	0
Machine-made 10½ × 6½ Staffordshire district	17	0	0
Hand-made Hip and Valley tiles per doz.	1	13	0
Machine-made Hip and Valley tiles do.	1	12	0
Concrete tiles 10½ × 6½	8	10	0
do. Interlocking (49S)	19	16	6

NOTE.—Breakage in transit, purchasers' responsibility.

SLATES

First-quality Slates from Penrhyn or Portmadoc, carriage paid in full truck loads to London Rate station. Per 1,000 actual.

	£	s.	d.
24 × 12	160	4	0
22 × 12	126	15	0
22 × 11	114	15	0
20 × 12	107	5	0
20 × 10	105	0	0
18 × 10	71	5	0
18 × 9	62	14	0
16 × 10	54	15	0
16 × 8	42	18	0

NOTE.—Breakage in transit, purchasers' responsibility.

TIMBER

			£	s.	d.
Softwood	Ex Wharf	per			
Joinery quality	Wharf	standard	£115 to £140		
Carcassing quality	do.	,,	£94 — £98		
1 in. Tongued and Grooved Flooring	do.	,,	£112	0	0
Hardwood			£	s.	d.
Mahogany—African S.E.	do.	per ft. cube	1	10	0
do. Honduras S.E.	do.	,,	3	5	0
Oak European S.E.	do.	,,	2	10	0
do. Japanese S.E.	do.	,,	3	0	0
do. English Logs sawn ...	do.	,,	2	0	0
Teak 8 in. average S.E. ...	do.	,,	3	17	6
Walnut African Logs sawn ...	do.	,,	1	2	6
Plywood		per			
6 mm. (¼ in.) Birch Plywood B/BB		100 sq. ft.	4	4	3
6 mm. Israeli Gaboon do. B/BB exterior grade WBP (AX100)		,,	4	5	3
18 mm. Birch Blockboard		,,	9	8	0
¾ in. Douglas Fir Plywood 96 in. × 48 in. Exterior grade WPB (AX100) solid two sides		,,	9	3	0

DOORS (in Lots I-II)

Delivered London area.		£	s.	d.
1½ in. 4 Horizontal Panel. Pattern 4 in. deal				
2 ft. 0 in. × 6 ft. 6 in.	each	1	16	0
2 ft. 3 in. × 6 ft. 6 in.	,,	1	17	6
2 ft. 6 in. × 6 ft. 6 in.	,,	1	18	6
2 ft. 9 in. × 6 ft. 6 in.	,,	2	0	6
2 in. do. but top panel open. Pattern 4 × G in deal				
2 ft. 6 in. × 6 ft. 6 in.	,,	2	9	0
2 ft. 9 in. × 6 ft. 6 in.	,,	2	11	6
2 in. 2 Panel top panel open. Pattern 2 × G in deal				
2 ft. 6 in. × 6 ft. 6 in.	,,	2	3	0
2 ft. 9 in. × 6 ft. 6 in.	,,	2	5	0
1½ in. Plywood Faced Flush Doors to BS459, Part 2A				
2 ft. 0 in. × 6 ft. 0 in.	,,	1	12	3
2 ft. 0 in. × 6 ft. 6 in.	,,	1	12	3
2 ft. 3 in. × 6 ft. 6 in.	,,	1	13	9
2 ft. 6 in. × 6 ft. 6 in.	,,	1	15	3
2 ft. 9 in. × 6 ft. 6 in.	,,	1	18	0
1½ in. Hardboard Faced Flush Doors				
2 ft. 0 in. × 6 ft. 0 in.	,,	1	5	6
2 ft. 0 in. × 6 ft. 6 in.	,,	1	6	0
2 ft. 3 in. × 6 ft. 6 in.	,,	1	6	6
2 ft. 6 in. × 6 ft. 6 in.	,,	1	8	6
2 ft. 9 in. × 6 ft. 6 in.	,,	1	9	6

SUNDRIES

Delivered London area.		£	s.	d.
1 in. Wood Wool Slabs 6 ft. 0 in. × 2 ft. 0 in. in quantities of 1 ton (89 yds. to 1 ton)	per yd.		6	2
1½ in. do. (67 yds. to 1 ton)	,,		8	0
2 in. do. (52 yds. to 1 ton)	,,		9	9½
2½ in. do. (45 yds. to 1 ton)	,,		11	3
3 in. do. (39 yds. to 1 ton)	,,		12	7½
½ in. imported or home produced insulation Board, quantities over 5,000 sq. ft.	per 100 sq. ft.	2	2	6
⅛ in. Hardboard do.	,,	1	17	6
7/16 in. do. do.	,,	2	4	6
2 in. Compressed Straw Slabs, roofing quality. 6 ft., 8 ft., 9 ft., 10 ft., and 12 ft. × 4 ft.				
50–100 yds.	per yd. sup.		11	4
101–250 yds.	,,		10	10
251–750 yds.	,,		10	1
Over 750 yds.	,,		9	4
2 in. do. for partitions 4d. per yd. cheaper.				
5/16 in. Asbestos Flat Building Sheets...	,,		4	3½
¼ in. do. do. do.	,,		6	0
Roofing Felt 1-ply	,,		1	9
do. 2-ply	,,		2	2½
Best Scotch Glue in slabs	per ½ cwt.	5	3	9
do. pearl	,,	5	3	9
Croid Glue	28 lb.	2	6	0
Impact Adhesive	per gall.	2	12	0
Cut Nails 3 in. (1-ton lots)	per ton	84	10	0
do. 4 in. and up (1-ton lots)	,,	81	0	0
Wire Nails 3 in. (4-cwt. lots)	per cwt.	3	19	2
do. 4 in. and up (4-cwt. lots)	,,	3	16	6

METALS

STEEL JOIST, ETC.

Basis Joists—		£	s.	d.
6 in. × 5 in., 8 in. × 5 in., 8 in. × 6 in., 10 in. × 6 in., 12 in. × 6 in., plain cut to lengths delivered London area	per ton	47	15	0
Extra for sizes				
3 in. × 1½ in. 4 in. × 1¾ in.	,,	3	10	0
3 in. × 3 in.	,,	2	10	0
4 in. × 3 in.	,,	2	5	0
10 in. × 4½ in.	,,	1	10	0
5 in. × 2½ in. 5 in. × 3 in.	,,	1	15	0
4¾ in. × 1¾ in.	,,	3	5	0
5 in. × 4½ in. 7 in. × 3½ in. 13 in. × 5 in. ...	,,		15	0
6 in. × 3 in. 24 in. × 7½ in.	,,	2	0	0
6 in. × 4½ in. 7 in. × 4 in. 8 in. × 4 in. } 9 in. × 4 in. 10 in. × 5 in. ... ... }	,,	1	5	0
12 in. × 5 in. 22 in. × 7 in.	,,	1	0	0

METALS—*continued*

		£	s.	d.
9 in. × 7 in. / 10 in. × 8 in. / 12 in. × 8 in. / 14 in. × 5½ in. / 14 in. × 6 in. / 14 in. × 8 in. / 15 in. × 5 in. / 15 in. × 6 in. / 16 in. × 6 in.	per ton		10	0
16 in. × 8 in. / 18 in. × 6 in. / 18 in. × 7 in. / 18 in. × 8 in. / 20 in. × 6½ in. / 20 in. × 7½ in.	,,		10	0
Steel angles average price	,,	48	15	0
Steel tees average price	,,	49	15	0
Fabricated work delivered London—				
R.S. Joists cut and fitted	,,	67	19	0
Compound girders	,,	72	14	3
Stanchions	,,	78	9	9
Compound stanchions	,,	83	4	3
In Roof Work—Trusses and Purlins	,,	93	19	6
Average prices not for awkward work.				
Angle cleats and ⅝ in., ¾ in. and ⅞ in. bolts average price London area	per cwt.	5	10	0
Above prices joists etc. increased by 1·1%.				

Ferro-Concrete Bars and Fabric

Mild Steel Ferro-Concrete Bars British manufacture to BSS 785 ex. Mills. 1 in. diameter and upwards delivered nearest London station ...	per ton	40	10	0
do. do. ex. London Stock do. delivered London site	,,	49	10	0
Extras—				
¼ in. diam.	per ton extra	8	12	6
5/16 in. do.	,,	6	12	6
⅜ in. do.	,,	4	12	6
½ in. do.	,,	3	2	6
⅝ in. do.	,,	1	10	0
¾ in. and ⅞ in. diam.	,,		15	0
Above prices mild steel bars increased by 1·1%.				
Steel wire mesh reinforcing fabric to BSS 1221A.				
Ref. No. 106 ... ... 7.88 lbs.	per sq. yd.		5	2¾
,, ,, 109 ... ... 4.71 ,, ...	,,		3	0¾
,, ,, 113 ... ... 1.83 ,, ...	,,		1	8¾
,, ,, 122 ... ... 7.32 ,, ...	,,		4	10½
,, ,, 125 ... ... 4.32 ,, ...	,,		2	10½

Mild Steel Tubes

Tubes to BSS 1387. Fittings BSS 1740.

Basic List Prices

		¼ in.	⅜ in.	½ in.	¾ in.	1 in.	1¼ in.	1½ in.	2 in.
Tubes	per ft.	9¾	10	1/–	1/2½	1/9	2/3	2/8	3/9
Bends	each	1/7	1/9	2/–	2/6	3/8	5/5	6/2	10/7
Elbows, square	,,	1/8	1/10	2/2	2/6	3/–	4/4	5/2	8/6
do. round	,,	1/10	2/–	2/4	2/10	3/4	4/8	5/8	9/4
Tees	,,	2/–	2/2	2/6	3/2	3/8	5/–	6/2	10/2
Crosses... ...	,,	4/4	4/8	5/6	6/6	8/2	11/–	13/2	21/–
Sockets, Plain	,,	6	6	8	10	1/–	1/4	1/9	2/6
do. Diminished	,,	8	10	1/–	1/2	1/6	2/–	2/8	4/–
Backnuts ...	,,	4	4	6	7	10	1/–	1/4	2/2

Malleable Fittings

		¼ in.	⅜ in.	½ in.	¾ in.	1 in.	1¼ in.	1½ in.	2 in.
Elbows, round	each	8½	8½	9½	1/2½	1/8½	2/7½	3/6	5/–
Tees	,,	9½	9½	1/–	1/4¾	2/–	2/9½	4/–	5/6
Crosses... ...	,,	1/2½	1/2½	1/4¾	2/–	2/9½	3/7½	5/2½	7/2½
Sockets... ...	,,	5¾	5¾	7	9½	1/–	1/7½	2/2½	3/1½
Backnuts ...	,,	3	3	3½	4½	5¾	7¾	10½	1/5½

Discounts from List prices as follows :—

Galvanised Tube—

	Under 1 ton	Over 1 ton	W.I. Fittings	Malleable Fittings
Light	−36¾%	−38½%	Light −24½%	Malleable List
Medium	−32¾%	−34½%	Heavy −20¾%	−14%+40%
Heavy	−25 %	−26¾%		
Black—				
Light	−47 %	−48¾%	Light −30½%	Malleable List
Medium	−43 %	−44¾%	Heavy −26¾%	−14%
Heavy	−35½%	−37 %		

C.I. Half-Round Gutters

Delivered London per yd. in 6 ft. lengths.

	Gutters	Nozzles	Stop Ends
3 in.	4/4½	3/10	1/1
3½ in.	4/9	4/2	1/1
4 in.	6/1½	4/9	1/8
4½ in.	6/9	5/4	2/–
5 in.	7/6	5/9	2/4

C.I.O.G. Gutters

Per yd. in 6 ft. lengths :

	Gutters	Nozzles	Stop Ends
3 in.	5/7½	5/1	1/4
3½ in.	6/3½	5/1	1/8
4 in.	6/11½	5/4	2/–
4½ in.	7/6	6/1	2/4
5 in.	8/2½	7/–	2/8

C.I. Rain-Water Pipes

	Pipes	Bends	Branches
2 in.	9/4	4/9	6/10
2½ in.	9/4	5/4	9/2
3 in.	10/6	6/8	9/11
3½ in.	11/10	7/10	11/11
4 in.	13/9½	9/6	14/2

L.C.C. Coated Soil Pipes

2 in.	10/7	8/2	9/11
2½ in.	11/2	9/1	12/4
3 in.	12/6½	9/11	14/8
3½ in.	14/–½	12/4	17/1
4 in.	15/11½	13/10	20/3

Above prices for gutters, rain-water and soil pipes for under 5-cwt. lots only. Lots over 5 cwt. see List No. 3300, dated February 1, 1955, plus 32½% and tonnage allowance. 4-ton lots 5%, 2-ton lots 2½%.

L.C.C. Coated Drain Pipes

		£	s.	d.
4 in. diameter in 9 ft. lengths	per yd. run	1	11	1
6 in. do. do.	,,	2	5	6
4 in. diameter bends	each	1	0	6
6 in. do. do.	,,	2	14	9
4 in. diameter branches	,,	1	16	6
6 in. do. do.	,,	4	7	6
Above prices for any quantity but under 5 cwt. carriage extra.				

Pitch Fibre Drain Pipes

2 in. diameter in 5 ft., 5 ft. 6 in. or 8 ft. lengths including couplings	per ft. run		1	6½
3 in. do.	,,		1	10½
4 in. do.	,,		2	6
5 in. do.	,,		4	1½
6 in. do.	,,		5	0½
4 in. diameter short radius ¼ bends	each		17	9
4 in. do. do. ⅛ bends	,,		12	11
2 in. diameter 6 ft. radius bends (5 ft. lengths)	,,		17	0
3 in. do. do. do.	,,		19	8
4 in. do. do. do.	,,	1	7	4
5 in. do. do. do.	,,	2	4	0
6 in. do. do. do.	,,	2	14	6
Above prices for loads of £60 and over. Loads £25 to £59 19s. 11d. Plus 10% Loads under £25 ... Plus 15%				

Asbestos Rain-Water Pipes and Fittings

All less 17½% discount.		2 in.	2½ in.	3 in.	4 in.
Pipes, 6 ft. lengths ...	per yd.	4/7	4/10½	5/11	7/10
Shoes	each	3/–	3/3	3/10	5/2
Single Branches	,,	4/8	5/6	6/7	9/2
Bends, squares or obtuse ...	,,	3/3	3/7	4/8	6/7
Swan Necks, 4½ in. proj....	,,	3/7	4/8	5/2	7/3
do. 6 in. do. ...	,,	3/10	5/2	5/10	7/10

Asbestos O.G. Gutters and Fittings

		4 in.	4½ in.	5 in.	6 in.
Gutters, 6 ft. lengths ...	per yd.	4/4	4/9½	5/9	6/10½
Drop ends	each	3/6	4/–	4/9	5/5
Stop ends	,,	1/1	1/2	1/3	1/5
Angles	,,	3/7	4/1	5/–	5/10
Nozzles	,,	3/6	4/–	4/9	5/–
Union Clips	,,	1/9	2/1	2/6	2/11

Asbestos Half-Round Gutters and Fittings

	per	3 in.	4 in.	4½ in.	5 in.	6 in.
Gutters, 6 ft. lengths	yd.	3/0½	3/7½	3/8½	4/4½	6/1
Drop ends	each	2/6	3/–	3/3	3/7	5/2
Stop ends	,,	1/–	1/1	1/2	1/3	1/5
Angles	,,	2/10	3/3	3/7	3/10	5/2
Nozzles	,,	2/6	3/–	3/3	3/7	5/2
Union Clips ...	,,	1/3	1/4	1/5	1/7	2/5

	Per ton basis in London £	s.	d.
Iron—Staffordshire Crown Merchant Quality	52	17	6
Mild Steel Bars	47	18	0
Mild Steel Hoops	49	10	0
	Ex Merchant's Stock per ton Two-ton lots £	s.	d.
Soft Sheets C.R. and C.A.—			
20 gauge	63	0	0
24 gauge	65	10	6
26 gauge	68	11	0
Galvanised Corrugated Sheets, 6-ft. to 9-ft.—			
20 gauge	70	18	0
24 gauge	74	9	0
26 gauge	79	15	0
Galvanised Flat Sheets C.R. and C.A.—			
20 gauge	72	8	6
24 gauge	75	19	0
26 gauge	81	5	0

ALUMINIUM AND ALUMINIUM ALLOYS

(Base Prices)		£	s.	d.
Sheet BS 1740 S1C 18 SWG (36 in. wide)... ...	per lb.		3	0½
Sheet BS 1470 NS3 Utility 18 SWG (36 in. wide)	,,		2	11½
Coiled strip BS 1470 S1C 18 SWG (24 in. wide)	,,		2	11½
Coiled strip BS 1470 NS3 Utility 18 SWG (24 in. wide)...	,,		2	11
Coiled strip high purity, 22 SWG (12 in. wide)	,,		3	2
Corrugated sheet BS 1470 NS3 Circular Profile 8 ft. × 32 in. × 20 SWG	per sheet	1	14	1
Corrugated sheet BS 1470 NS3 Industrial Profile 8 ft. × 31¾ in. × 20 SWG	,,	1	19	10
Corrugated sheet BS 1470 NS3 Mansard Profile 8 ft. × 31¾ in. × 20 SWG	,,	1	13	1
Extruded section BS 1476 E1C simple moulding	per lb.		2	10½
Extruded section BS 1476 E1C 1 in. diam. round	,,		2	8
Extruded section BS 1476 HE19WP simple angle	,,		3	2
Extruded section BS 1476 HE19WP 1 in. diam. round	,,		3	1
Tubing BS 1471 T1C 1½ in. O/D × 20 SWG ...	,,		4	8
Tubing BS 1471 HT19WP 1½ in. O/D × 20 SWG	,,		6	3

PLUMBERS' BRASS WORK, etc.

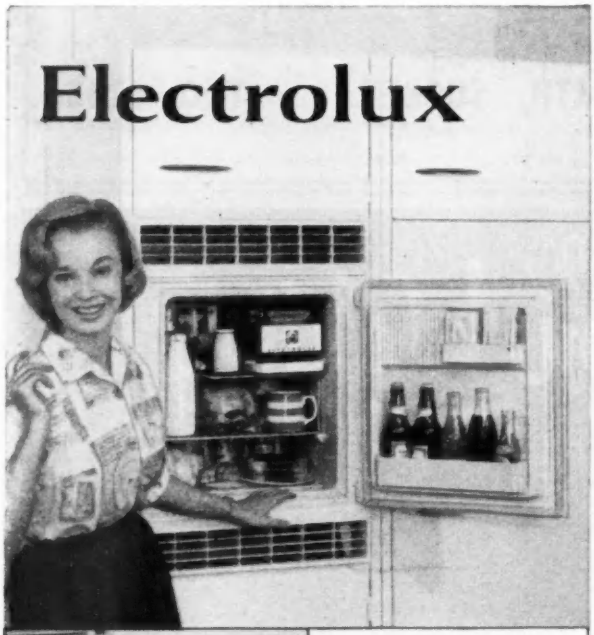
Delivered in London area.

All per dozen	B.S.S. ½ in.	¾ in.	1 in.	1¼ in.	1½ in.	2 in.
Screwdown bib cocks Crutch head for iron...	87/–	128/–	—	—	—	—
Toilet bib cocks for iron ...	109/–	158/5	—	—	—	—

Over 200,000 Electrolux built-in refrigerators

now installed in housing estates

MODEL MB.16 built-in refrigerator is another immensely successful Electrolux development. Designed especially for today's new homes it incorporates the practical experience of builders and housing experts. Its lightness in weight, its dimensions, its generous storage capacity, its remarkably low price all make it the obvious choice for building-in. And, of course, the MB.16 retains to the full the quality and reliability for which Electrolux are famous.



MODEL MB.16
- Builds into kitchen fitments at waist height, at floor level under draining board or working top unit of British Standard specification.
- Can be included in mortgage as fitment.
- External finish in WHITE or CREAM.
- Left hand or right hand door as required.
- Permanently silent operation by electricity or gas.
- No motor, no vibration.
- Cooling unit guaranteed 5 years.

Post to: Electrolux Ltd., Contracts Dept., 153/5 Regent Street, London, W.1.
Please send me full details of model MB.16 built-in refrigerator.

NAME .....
B(8)
ADDRESS .....
.....

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SC73

WOTTONS
CROYDON LTD.

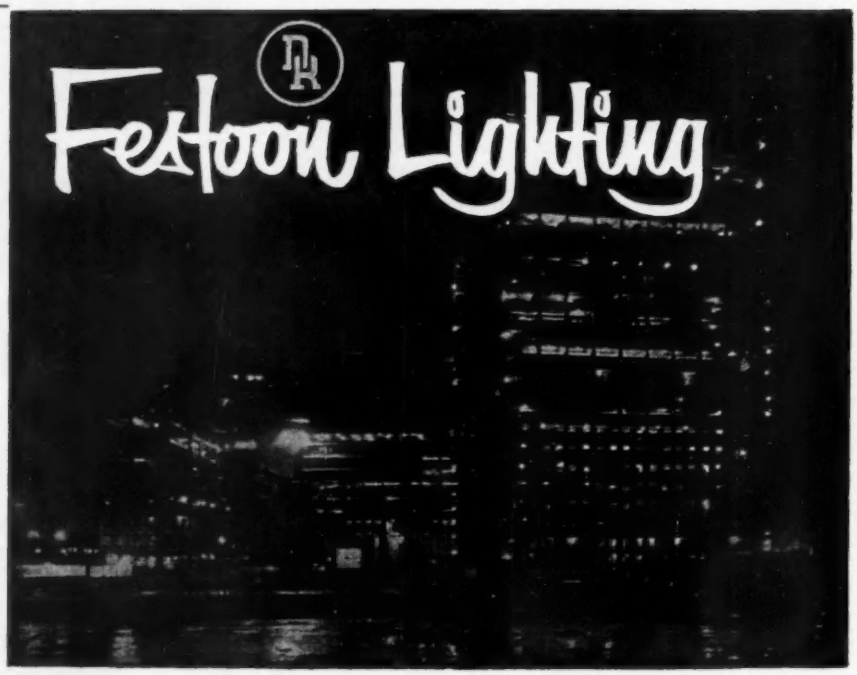
GLASS * GLAZING
METAL WINDOWS

*

LONDON ROAD, THORNTON HEATH, SURREY. THO 6242

Whatever the project . . .

. . . light it up with



D. R. ILLUMINATIONS LTD.
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Telephone: STOckport 7159

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SIR ROBERT McALPINE & SONS LTD.
Building:
SHELL CENTRE — SOUTH BANK.
Architects:
Messrs. EASTON & ROBERTSON CUSDIN, PRESTON AND SMITH

A MEMBER OF THE AERIALITE GROUP

CW7201.

PLUMBERS' BRASS WORK, etc.—*continued*

All per dozen	½ in.	¾ in.	1 in.	1¼ in.	1½ in.	2 in.
Screwdownstopcocksforiron	66/–	95/9	188/–	363/–	522/6	917/6
do. with two unions for lead	89/–	132/–	234/4	472/–	623/6	1,389/6
Double nut boiler screws ...	18/8	26/5	47/6	48/6	67/–	93/6
Heavy Croydon ball valves	77/–	193/6	312/5	568/8	734/10	—
Plumbers' union brass lead to iron	19/6	23/6	38/6	52/10	70/6	165/–
	1¼ in.	1½ in.	2 in.	3 in.	3½ in.	4 in.
Caps and Screws	33/–	40/8	59/6	92/5	118/10	155/3
Brass Sleeves	—	31/11	31/11	56/2	74/10	91/5
	1¼ × 6 lb.	1½ × 6 lb.	2 × 7 lb.	3 × 7 lb.		
Lead P. trap with brass cleaning screws	68/6	85/6	137/–	233/9		
Lead S. trap do. do.	82/9	102/9	168/3	302/3		

Solder :

			s.	d.
Plumbers' ...	1 cwt. lots	320/–	14 lb. lots per lb.	3	7
Tinmen's	,, ,,	404/–	,, ,, ,,	4	5
Blow pipe ...	,, ,,	407/–	,, ,, ,,	4	6

Copper Tubes and Sheets

Copper tubes BSS 659/1944 on the basic price of 27¾d per lb. plus gauge and manufacturing extras as follows. Minimum quantities, 10 cwt.

	Extra d.	Total per lb.	d.	Approx. per ft.	d.
¼ in. × 19 gauge	16¼		43⅝		11¾
⅜ in. × 19 ,,	14¾	,, ,,	41¾	,, ,,	16¼
1 in. × 18 ,,	12⅞	,, ,,	40½	,, ,,	25
1¼ in. × 18 ,,	12¼	,, ,,	39⅝	,, ,,	30
1½ in. × 18 ,,	12¼	,, ,,	39⅝	,, ,,	36
2 in. × 17 ,,	13⅞	,, ,,	41¼	,, ,,	57¾

Small Quantity extras :

10 cwts. to 5 cwts.	plus ½d.	per lb.
5 cwts. to 2 cwts.	,, 1d.	,,
2 cwts. to 1 cwt.	,, 2d.	,,

Rolled Copper sheets up to 48 in. wide, basic price plus gauge and manufacturing extras ... ... £ 267 s. 0 d. 0

Zinc

		£	s.	d.
Sheet Zinc, 10 gauge (25 SWG),	5 cwt. lots upwards per cwt.	8	6	6
,, ,, 12 gauge (23 SWG),	,, ,, ,, ,,	8	4	0
,, ,, 14 gauge (21 SWG),	,, ,, ,, ,,	8	2	9

Brass Tube

Brass tubes, basic price, plus gauge and manufacturing extras ... ... per lb. 1 9⅞

LEAD SHEET AND PIPES

Basis selling price to one address in London or Home Counties :

		£	s	d.
Lead Sheet, English, 3½ lb. substance and upwards	per ton	104	15	0
,, Water Pipe, in coils	,,	107	0	0
Lead Soil Pipe, 10 ft. or over 2 in. to 4 in. in dia.	,,	108	10	0
,, ,, ,, over 4 in. dia.	,,	110	10	0
,, Gas or Untinned Compo pipe	,,	108	10	0

5 cwt. lots and over less 6d. per cwt. off basic prices.

Extras over Basis for quantities under 5 cwt. :

3 cwt. and under 5 cwt.	per cwt.	4	0
1 cwt. do. 3 cwt.	,,	6	0

Smaller quantities than 1 cwt. priced specially.

Supplying sheet lead and lead pipes to less than basis weights and cutting to sizes less than basis charged extra according to current trade schedule.

Allowance for Old Lead, collected, £53 0s. 0d. per ton weighed at buyer's works.

PLASTER, etc.

		£	s.	d.
Coarse Pink in 1-ton loads and over delivered on site	per ton	8	11	3
do. White do. do. do.	,,	9	0	9
Sirapite Coarse BSS 1191 Class C do.	,,	9	2	9
do. Fine do. do. do.	,,	9	10	6
do. Browning BSS 1191 Class B do.	,,	9	2	9
do. Board Finish do. do.	,,	9	2	9
Blue Lias Lime, in 6-ton loads	,,	6	17	6
Hydrated Lime (Grey) in 6-ton loads	,,	5	10	0
do. (White) do.	,,	6	0	0
Lump Lime (Grey) do.	,,	5	7	0
do. (White) do.	,,	5	14	6
White Keen's or Parian Cement, in 1-ton loads ...	,,	12	7	6
Pink Keen's or Parian Cement, in 1-ton loads ...	,,	12	2	3
Granite Chips, in 6-ton loads	,,	2	6	9
Hair	per cwt.	4	17	6
Gypsum Plaster Lath or Base Board, ⅜ in. thick, 600 yds. and over in one delivery. Delivered site	per yd.	2	2½	
1,200 yds.	,,	2	1½	
do. Insulating do. ⅜ in. thick, 600 yds. and over in one delivery. Delivered site	,,	2	8	
1,200 yds.	,,	2	7	
Gypsum Plaster Wall Boards, 3 and 4 ft. wide 6 to 12 ft., ½ in. thick, 600 yds. and over in one delivery. Delivered site	,,	2	5½	
1,200 yds.	,,	2	4½	
do. Insulating do. ⅜ in. thick, 600 yds. and over in one delivery. Delivered site	,,	2	11	
1,200 yds.	,,	2	10	

PAINTS AND DISTEMPER

Delivered London area.		£	s.	d.
Ceiling Distemper	per cwt.	1	7	6
Washable Distemper	,,	5	15	0
Gloss Paint	per gal.	2	16	0
Super Snowcem cement paint (in 1 cwt. drums) ...	per cwt.	5	0	0

Lead Products and Oils

		£	s.	d.
Ground White Lead, in 1 cwt. kegs	per cwt.	8	7	6
Genuine White Lead Paint, 1-19 gal. lots in 1 gal. tins	per gal.	3	6	6
Genuine Red Lead, Dry, 1 cwt. keg (10 ton lots)	per cwt.	5	12	6
do. do. do. (1 cwt. lots)	,,	6	19	0
Genuine Linseed Oil Putty, 1 cwt. keg	,,	2	13	6
Size XD quality 28 lb.	per tin		9	0
Raw Linseed Oil (5 gal.) drums extra	per gal.		16	9
Boiled Linseed Oil (5 gal.) do.	,,		17	8

Sundries

Turpentine substitute (5 gal.) drums extra ...	,,	5	4½
do. do. (40 gal.) do.	,,	4	8⅛
Solignum, Brown (5 gal. cans) Exterior	,,	10	0
Creosote (40 gal. barrels)	,,	2	3
Paste Powder (1 lb. packets)	per lb.	2	4
White Lining Paper	per piece	1	4

VARNISHES, etc.

Delivered London area.		£	s.	d.
Oak Varnish, Outside or Inside	per gal.	2	0	0
Oak, Pale Copal do. do.	,,	2	0	0
Hard Drying Oak for Inside	,,	2	5	0
Crystal Paper Varnish do.	,,	2	8	0
Eggshell Flat Varnish do.	,,	2	2	0
Finest Carriage Varnish	,,	2	7	0
Front Door Varnish	,,	2	4	0
Japan Gold Size	,,	1	12	0
Black Japan	,,	1	16	0
Brunswick Black	,,	1	12	0
Berlin Black	,,	1	10	0
Terebene	,,	1	12	0
Knotting (1 gal. bottles free)	,,	1	15	0
French and Brush Polish (do.)...	,,	1	15	0

GLASS

Delivered London area.		s.	d.
18 oz. Sheet Glass Ordinary Glazing Quality— Cut Sizes...	per ft. sup.		10
24 oz. do. do. do. do.	,,	1	0½
26 oz. do. do. do. do.	,,	1	3
32 oz. do. do. do. do.	,,	1	7½
¼ in. Rolled Plate...	,,	1	3¾
3/16 in. Rolled and Rough Cast...	,,	1	6½
½ in. do. do.	,,	1	7½
⅛ in. Figured Rolled and Cathedral, Standard patterns—			
White Group 1	,,	1	3¾
do. Group 2	,,	1	9¾
do. Standard Tints	,,	2	1½
do. Special Tints	,,	7	3
⅛ in. Pinstripe, Hammerstripe, Reeded, Reedlyte and Luminating Group 3	,,	1	8½
¼ in. Wired Cast up to 50 in.	,,	1	10½
¼ in. do. do. 50 in. to 72 in.	,,	2	2¾
¼ in. Georgian Wired Cast	,,	1	11
Hollow Glass Blocks—			
P.B.2 Cross reeded 5¾ × 5¾ × 3⅞ in.	each	3	9
P.B.3 Broad reeded 7¾ × 7¾ × 3⅞ in.	,,	5	9
P.B.32 Cross reeded 7¾ × 7¾ × 3⅞ in.	,,	5	9
P.B.4 Prismatic 7¾ × 7¾ × 3⅞ in.	,,	6	6
P.B.5 Flemish 7¾ × 7¾ × 3⅞ in.	,,	5	9
P.B.6 Boomerang 7¾ × 7¾ × 3⅞ in.	,,	6	6
Half Size Blocks—			
P.B.32 Cross reeded 7¾ × 3¾ × 3⅞ in.	,,	4	10
Radiused Corner Blocks to match up with—			
P.B.2 Cross reeded	,,	8	1
P.B.3 Broad reeded	,,	9	8
P.B.32 Cross reeded	,,	9	8
P.B.2, P.B.3, P.B.32 are also supplied in Light Diffusing Blocks at same price.			
¼ in. Polished Plate Glass, G.G. quality—			
In plates not exceeding 2 ft. sup.	per ft. sup.	4	7
,, ,, ,, 5 ft. sup.	,,	5	7
,, ,, ,, 45 ft. sup.	,,	7	6
,, ,, ,, 100 ft. sup.	,,	7	6
¼ in. Polished Plate, extra sizes, i.e., plates exceeding 100 ft. sup. or 160 in. one way or 96 in. both ways. G.G. quality—Not exceeding 135 ft. sup. or 240 in. one way or 130 in. both ways ...	,,	11	4
Not exceeding 180 ft. sup. or do.	,,	15	0

Plates exceeding 180 ft. sup. prices on application.

Substances other than ¼ in. Polished Plate at Special Prices.

Quantity Tariff—Sheet and Sundry Glass.

The following prices apply to minimum quantities of one size and one pattern delivered by the manufacturer to one site at one time.

Description of Glass—	Minimum quantity	per ft. sup. s.	d.
18 oz. sheet O.Q.	3,000		7⅞
24 oz. ,, ,, ...	2,000		9½
26 oz. ,, ,, ...	2,000		11½
32 oz. ,, ,, ...	2,000	1	3½
¼ in. Rolled Plate...	1,000		10⅞
⅛ in. Figured Rolled and Cathedral Standard Patterns, White Group 1	1,000		10⅞
do. Group 2	1,000	1	2⅛
⅛ in. Pinstripe, Hammerstripe, Reeded, Luminating and Spotlyte Group 3	1,000	1	2⅛
3/16 in. Rolled Plate or Rough Cast	2,000	1	2
¼ in. do. do.	2,000	1	2¾
¼ in. Wired Cast, Hexagonal up to 50 in. ...	2,000	1	5
¼ in. do. do. do 50 in. to 72 in. ...	2,000	1	9
¼ in. Georgian Wired Cast	2,000	1	5½

THE BUILDER RATES OF WAGES

AS FROM FEBRUARY 6th., 1961. (Every endeavour is made to ensure accuracy but we cannot be responsible for errors)

1. Craftsmen and Labourers.

Region	Craftsmen	Labourers
	s. d.	s. d.
England & Wales (Grade A) ...	5 0	4 4½
London	5 1½	4 6
Liverpool and District ...	5 1½	4 6
Scotland... ...	5 0	4 4½

2. Apprentices.

Age	Per cent. of Craft Rate	London and Liverpool Dist.	England, Wales
		s. d.	s. d.
15	25	1 3½	1 3
16	33½	1 8½	1 8
17	50	2 6½	2 6
18	62½	3 2½	3 1½
19	75	3 10½	3 9
20	87½	4 6	4 4½

3. Young Male Labourers.

Age	Per cent. of Craft Rate	London and Liverpool Dist.	England, Wales and Scotland
		s. d.	s. d.
15	33½	1 6	1 5½
16	45	2 0½	1 11½
17	66½	3 0	2 11
18	100	4 6	4 4½

NORTHERN IRELAND is not included; rates fluctuate so much from district to district that reference should be made to local offices.
WATCHMEN.—The rates per shift for watchmen engaged on building sites is 27s. 6d. in London and Liverpool District, and 26s. 3d. in the provinces.
FEMALE OPERATIVES.—In all districts throughout the country except in Scotland the rate of wages for women, aged 19 and over, engaged in craft processes is 4s. 1½d. per hour. Women engaged on work other than craft processes, 3s. 9½d. per hour. In Scotland the rate for the woman craftsman is 4s. 4½d. after a probationary period, and the woman labourer, 3s. 10½d.

A Guarantee for House Buyers

Housing Minister on Value of NHBRC Certificate

PRAISE FOR the National House-Builders Registration Council's fight to eliminate sub-standard building has come from MR. HENRY BROOKE, Minister of Housing and Local Government.

Speaking at the presentation on July 19 of the 150,000th certificate awarded by the Council to a house at Leverstock Green, Hemel Hempstead, Herts., Mr. Brooke advised people buying a new house to ask whether it carried a NHBRC Certificate. He could not understand why far more people who were buying a house did not safeguard themselves by asking whether the house carried the certificate. That certificate, he added, was a guarantee of sound construction, and that was just what the house-purchaser wanted.

'This certificate is a warranty of two things. First, that the specification to which the house was built indicated soundness of construction. Second, that the specification has been adhered to and that the work put into the house at all stages of construction has been up to standard. The builder who takes part in the scheme undertakes to make good at his own expense any defect which may come to light within two years arising from a failure to comply with the required standards.

'I hope,' Mr. Brooke concluded, 'that builders who are putting up good sound houses but have so far stayed outside the scheme will now think about coming in and joining it. Extension of the scheme is not only in the interest of house-purchasers; I am sure it is in the general interest of the building industry as well. The quicker that all the good builders are gathered together within the same scheme, the sooner the black sheep who do harm to the credit of the industry will be exposed for what they are.'

Facts and Figures

The presentation of the 150,000th certificate marks the beginning of an intensified publicity campaign by the Council to arouse public awareness of its scheme. The NHBRC was established as an independent, non-profit-making organisation to combat 'jerry-building' in 1936, and received Government Statute in 1948. The Council is made up of more than 40 representatives from a wide range of organisations connected with or interested in building. More than a third of the country's 3,000 house-builders are now registered. This year more than 40,000 houses will receive the certificate. The Council envisages that if the scheme continues to expand at its present rate, all new houses being built at the end of 1963 not under the direct supervision of architects, should have NHBRC protection.

The house for which the 150,000th certificate of good construction was issued is known as 'Ashdown.' It is a three-bedroom, semi-detached type designed specifically for a corner site. The ground floor comprises an entrance hall, living space, dining area and kitchen. Upstairs there is a bathroom and w.c. and three bedrooms. The total area is 909 ft. super. It was designed and built by the Laing Housing Co. Ltd. (F. Evans, ARIBA, senior architect).

New Companies

THE FOLLOWING NEW COMPANIES, registered in England, have been announced by Jordan and Sons, Ltd., company registration agents.

WALKER DEVELOPMENT CO. (RICHMOND) LTD.—Regd. July 13, 1961. 44 Lancaster-pk., Richmond, Surrey. Secy.: D. G. Clancy. Bldrs., etc. Nom. cap.: £15,000.

F. MEEKS & SON (BUILDERS) LTD.—Regd. July 13, 1961. Nom. cap.: £500. Dir.: Frank Meeks, 9 Coniston-ave., Perivale, Greenford.

OLYMVIL BUILDERS LTD.—Regd. July 14, 1961. Nom. cap.: £100. Subs.: Jean Herbert and Thos. A. Herbert, 156 Strand, WC2.

LUCOIL BUILDERS LTD.—Regd. July 14, 1961. 713 Imperial-hse., Kingsway, WC2. Secy.: Shirley Hart. Nom. cap.: £100.

BROWN, HEWTSON-BROWN LTD.—Regd. July 14, 1961. To acquire lands and bldgs. Bldrs., etc. Nom. cap.: £10,000. Sub.: John P. Lawton, 14 Bedford-st., WC2 (solr.).

TAYLOR & RICHMOND LTD.—Regd. July 14, 1961. Westgate Mills, High-rd., Chilwell, Beeston, Notts. Secy.: W. V. Richmond. Mfrs., dlrs., portable pre-fab. bldgs., etc. Nom. cap.: £3,000.

HOBSON BROS. (WHITLEY BRIDGE) LTD.—Regd. July 17, 1961. Bldrs., etc. Nom. cap.: £1,000. Sub.: W. A. Williams, 12 Heathcres., Leeds 1.

SEWELL (BUILDERS) LTD.—Regd. July 17, 1961. 276 Woodgrange-dr., Southend-on-Sea, Essex. Secy.: Betty L. Sewell. Nom. cap.: £100.

D.J.L. INVESTMENTS LTD.—Regd. July 17, 1961. 1-3 Stan-st., Liverpool 1. Secy.: J. E. Holroyd. Nom. cap.: £500.

J. GOODMAN (EXMOUTH) LTD.—Regd. July 17, 1961. 6 The Parade, Exmouth, Devon. Bldrs., contrs., etc. Nom. cap.: £1,000. Dir.: Jack Goodman, 77 Victoria-rd., Exmouth.

RELATAGOOD BUILDERS LTD.—Regd. July 17, 1961. Secy.: Thos. A. Herbert, 156 Strand, WC2. Nom. cap.: £100.

COOPER BROS. (BUILDERS) LTD.—Regd. July 17, 1961. 48 London Fruit Exchange, E1. Secy.: Winifred M. J. Cooper. Nom. cap.: £1,000.

A. & C. EDMUNDS LTD.—Regd. July 17, 1961. 5 Swaffield-rd., Sevenoaks. Secy.: Mona M. Edmunds. Bldr. and contr., etc. Nom. cap.: £5,000.

W. & F. ROUSE LTD.—Regd. July 18, 1961. 22 Grange-rd., Halesowen, Worcs. Secy.: Irene M. Rouse. Bldrs. and contrs., etc. Nom. cap.: £100.

NEWCOMBE CONSTRUCTION CO. (SOUTHEND) LTD.—Regd. July 18, 1961. 93-95 Southchurch-rd., Southend-on-Sea. Secy.: E. W. Matthams. Bldrs., etc. Nom. cap.: £1,000.

J. REMINGTON (BUILDERS) LTD.—Regd. July 18, 1961. 31 Kings-rd., SW3. Secy.: C. E. Surman. Nom. cap.: £100.

HALL HEATH & CO. (WIDNES) LTD.—Regd. July 18, 1961. 106 Blundell-rd., Widnes. Secy.: M. J. Keane. Bldrs., etc. Nom. cap.: £100.

PUTTICK & BAILIE CONSTRUCTIONS LTD.—Regd. July 18, 1961. 17 North-st., Hailsham. Secy.: J. L. Brisenden. Bldrs., etc. Nom. cap.: £100.

BUILDECOR LTD.—Regd. July 18, 1961. 1 Hyde Park-pl., W2. Secy.: Shirley Hart. Bldrs., etc. Nom. cap.: £100.

WITNEY (STOKE-ON-TRENT) LTD.—Regd. July 18, 1961. 331 London-rd., Stoke-on-Trent. Secy.: M. M. Robinson. Bldrs., etc. Nom. cap.: £5,000.

CASORA BUILDERS LTD.—Regd. July 18, 1961. 713 Imperial-hse., Kingsway, WC2. Secy. Shirley Hart. Nom. cap.: £100.

PORBERT (BUILDERS) LTD.—Regd. July 19, 1961. The Bungalow, Church-la., Letwell, nr. Worksop, Notts. Secy.: Bertha Probert. Nom. cap.: £2,000.

MONTGOMERY & CO. LTD.—Regd. July 19, 1961. 3 Kennet Wharf-la., Upper Thames-st., EC4. Secy.: K. A. Montgomery. Bldrs., etc. Nom. cap.: £500.

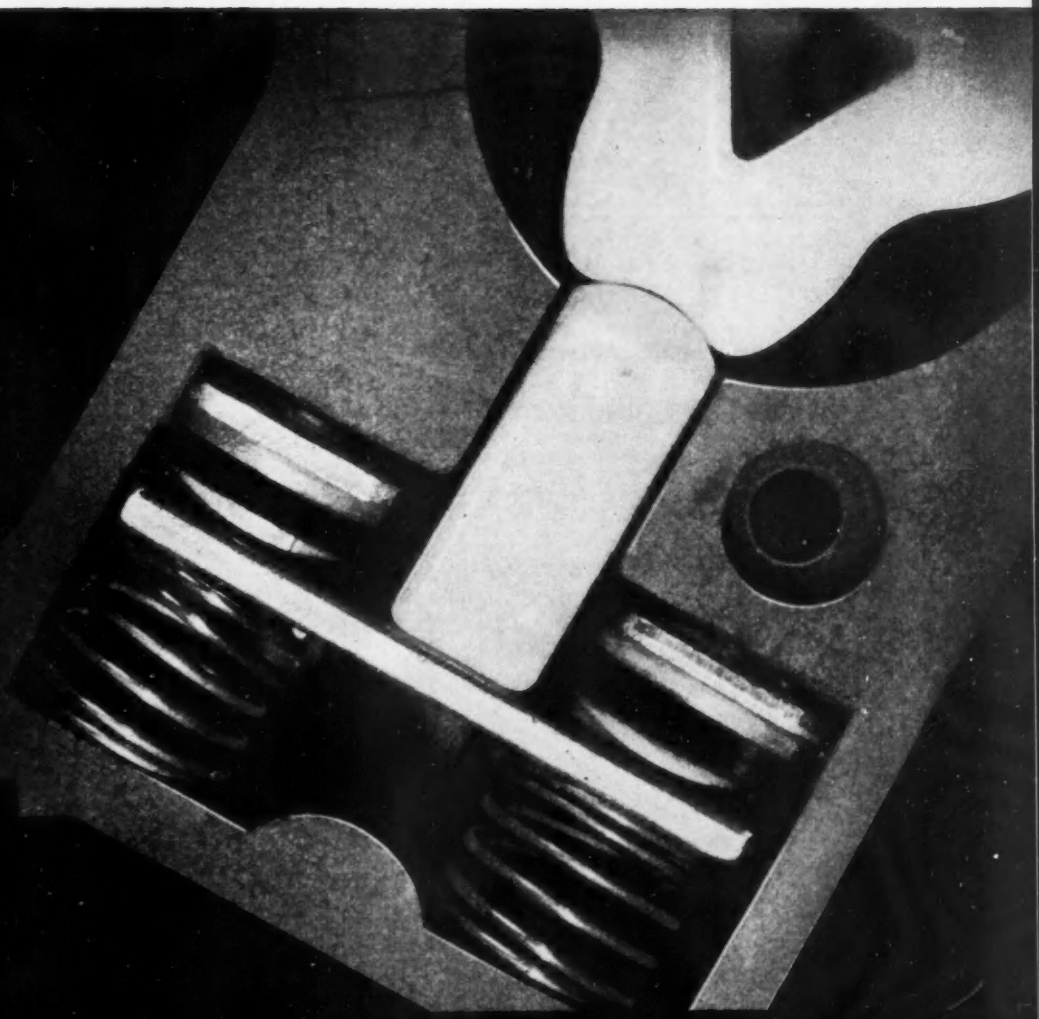
'HIDUTAC' switchfuses break 8 times their rated full load current

This high breaking capacity is made possible by cam-operated, silver contact, double-break "interruptor" units—just one of many 'Hidutac' exclusive features resulting from the *new approach* of the G.E.C. Installation Equipment Group to switchgear design. The *new approach* has crystallised from G.E.C.'s many years' experience of making switchgear superbly well.

Consider these other impressive advantages: *Unlimited full load switching*—'Hidutac' switchfuses operate at their full load current with unfailing reliability. *A unique compactness*, brought about by radial positioning of contacts. Generous wiring space and easy access to terminals at the front. *Total internal enclosure* of all moving parts, with shields over live terminals. *High fault current protection* in Single Pole and Neutral, Double Pole, Triple Pole and Neutral switchfuses with H.R.C. or rewirable fuses. Categories of duty are: H.R.C. fuses, all ratings, AC4 of BS88 (33000 amp); rewirable fuses, 15 and 30 amp ratings, S2A of BS3036 (2000 amp); rewirable fuses, 60 amp rating, S4A of BS3036 (4000 amp). *Modern styling* of pressed steel case with fully interlocked cover.

These exclusive features make 'Hidutac' switchfuses vastly superior for tungsten and discharge lighting control, motor control, and transformer and capacitor switching.

IMMEDIATE DELIVERY of 'Hidutac' switchfuses from wholesalers throughout the country. For more detailed information ask your wholesaler for 'Hidutac' literature.

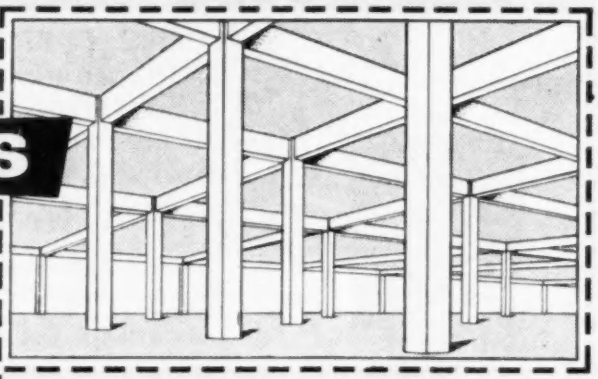


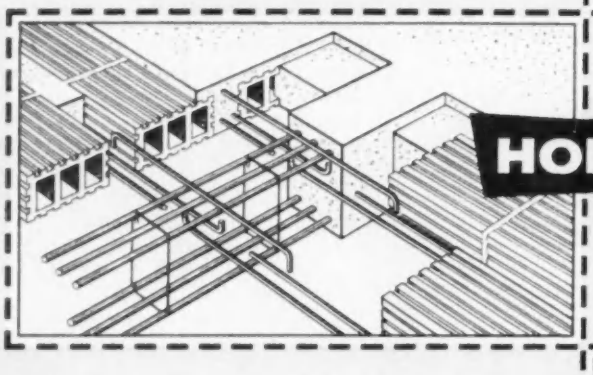
that's the New Approach of G.E.C.

INSTALLATION EQUIPMENT GROUP

R. C. FRAMES

and floors (in-situ construction)





HOLLOW-TILE FLOORS

(in-situ construction)

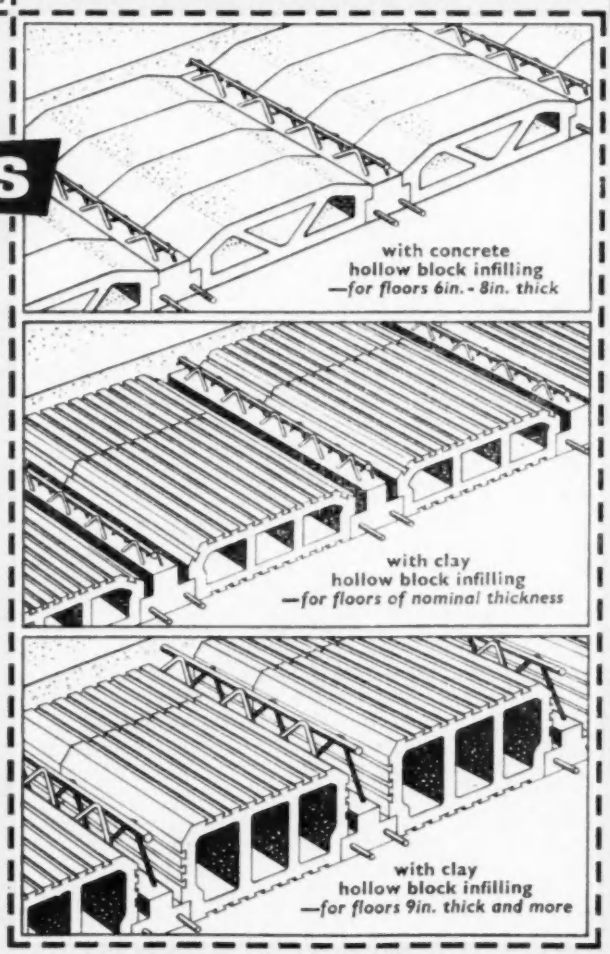
TRIAD FLOORS

—a composite construction floor of precast inverted stub T-beams reinforced with a welded steel lattice

with hollow block infilling of 3 types as illustrated—and an in-situ concrete topping

—requiring NO SHUTTERING.

All Triad Floors fixed complete or supplied for fixing by General Contractor



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IN CONCRETE SINCE
1905

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Branches at Birmingham, Bristol, Glasgow, Manchester, Newcastle, Southampton and Wakefield.

TECHNICAL REVIEW

This Review of plant, equipment and materials—in most cases new or with new features—is intended to give brief details only of the products mentioned. Notices are based on data supplied by the manufacturers. Additional information and prices can be obtained either direct or by using the prepaid Readers' Service form which appears on page 132 of this issue. The form can be used for more than one inquiry.

1. Car Parking

Twenty cars will be accommodated in a ground area normally covered by two cars, by means of an AUTOMATIC CAR PARK now being introduced to the British market. Known as the 'Liftpark,' in principle it works very much like the fun-fair's big wheel, having car-carrying cabins travelling perpendicularly up or down. The principle of cabins suspended from drive chains, known as the Paternoster system, was first applied to vertical parking in America in 1926. Since then a Swiss engineer, Herr Wullschleger, has patented two improved guiding systems. These, together with other general improvements, have made the Liftpark a commercial proposition.

To park his car, the motorist simply drives into a cabin, alights, enters the control kiosk and turns a key. The cabin and car then move up one side of the structure, and an empty cabin takes its place, ready for the next car. On returning the motorist need only replace the key in the required slot, according to the number of the cabin in which his car is housed, and his car is brought to ground level in an average time of 30 seconds.

The structure can be installed in office blocks, flats, factories and large departmental stores and, if not enclosed, adequate weather protection can be given by a wide variety of cladding materials.
The Butterley Co. Ltd.,
Ripley, Derby.

2. Electrical Fittings

A flexible glass-fibre INSULATED CABLE has recently been made available for use as a light fitting connection. It is suitable for 250-volt operation and has been specially designed to function at the high temperatures likely to be encountered in contemporary lighting fixtures used for illumination in modern office blocks, large stores and in enclosed show cases. The glass fibre used for the insulation treated with a suitable form of varnish binder and filler, will not burn or carry flame. Should the cable be subjected to an external source of heat, with temperatures of up to 180°C., the insulation and conductor remain intact, permitting a continued flow of electricity.
British Insulated Callender's Cables, Ltd.,
21 Bloomsbury-st., London, WC1.

3. Heating

To provide the traditional comfort of a fire at hearth level plus a measure of central heating, one of the latest OPEN FIRES will heat the room in which it is installed plus four average-sized radiators and a towel rail. For heating as well as hot water, a 25-30 gallon cylinder is recommended. It is possible for a valve to be fixed to enable the heating system to be isolated from the domestic hot-water supply. The appliance also has an under-floor air supply which gives better combustion and allows more efficient burning of smokeless and bituminous fuels. With this form of heating, room draughts are very much reduced. The air inlet is below floor level and can be fitted on the front or on either side of the ashpit. The ashpit itself needs emptying not more than twice a week.
Allied Ironfounders, Ltd.,
28 Brook-st., London, W1.

4. Roofing

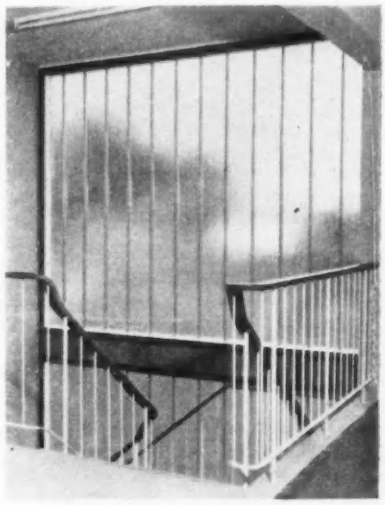
A new ROOF COATING, which is already widely used in America, has features which could be of particular appeal in this country. Basically it is made from specially processed roofing asphalt, tung oil and Canadian long fibre asbestos fortified by two special additives—one which makes the coating microporous and so stops blisters after application, the other inhibiting oxidisation.

The liquid can, apparently, be applied even on a damp roof without loss of waterproofing qualities as any moisture is automatically drawn upwards and evaporates on the surface. It is also very easy to apply. No heating or thinning is required and the liquid can be worked, straight from the container, on to the surface by the use of a broom. The coating, once down, will resist distortion due to temperature changes and provides an effective seal for a long period. When roof surfaces are in a bad condition, a primer is used to give a better base.
George E. Gray (Distributors) Ltd.,
Ilford, Essex.

5. Sheeting

New translucent glass fibre reinforced PLASTIC SHEETING is now being supplied corrugated in many profiles. It is proof against shock or splintering and can be fixed by conventional methods. It has been tested by the Joint Fire Research Organisation, and Certificate No. 1066 has been granted. Fitting is done in the same way as normal corrugated sheeting, no special frames being necessary. With the employment of a dense and thick glass fibre strand mat in manufacture, not only are good heat retaining qualities ensured, but the resistance to sound penetration is helped. It will not shatter or splinter when subjected to shock or vibration and is unaffected by exposure to any weather conditions and most chemical vapours.

It has considerable high light transmission, yet is not transparent and therefore very suitable for partitioning, decorative screens, skylights, windbreaks and the screening of unsightly buildings.
Marketad Ltd.,
Penhill-rd., Lancing, Sussex.



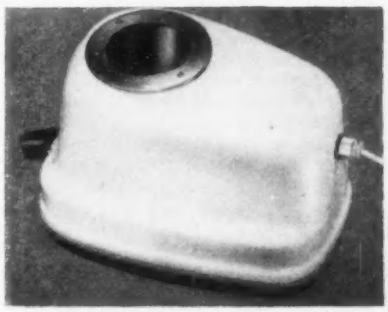
The first external example of a new, quickly-assembled constructional glass is this staircase walling, installed by glazing contractors Aygee Ltd. of Century House, Tanner-st., London, SE1, at the office extension of a factory in the Great West-road, London.

Called Profilit, this obscured glass admits 85 per cent of daylight. It is cast in trough-shaped sections with internally projecting edges which are flush-jointed with a non-hardening mastic. As the picture shows, the slender jointing barely interrupts the continuous glazed surface.

Widely used on the Continent for industrial buildings, exhibition halls and stores, the components are available in lengths of 8 to 15 ft. and are approximately 10 in. wide.

6. Waste Disposal

Details are announced of a portable WASTE DISPOSAL UNIT for the kitchen which, instead of being plumbed into the sink, can stand on the draining board, on a shelf or in the sink itself. The pulverising section, powered by an adequately suppressed ¼ hp motor, will dispose of all kitchen waste effectively, including bones and even broken glass. The outside case is of fibreglass, giving noise suppression, and the unit itself is light enough to lift easily in and out of the sink or on and off the draining board. It is only a 5 minute operation to convert a portable model into one which can be plumbed in to a sink. The unit is pictured below.
Delapena Mechanical Developments Ltd.,
6 Russell gardens, London, W14.



News in Brief

CLA Second Farm Buildings Contest

THE COUNTRY LANDOWNERS' ASSOCIATION has decided to hold a second National Farm Buildings Competition in 1961-62. The subject of the second competition is likely to be potato storage on the farm, and will be open to England and Wales. Further details will be issued later.

Modular Society Committee

MR. J. K. VIVIAN, a director of Williams and Williams Ltd., the Chester metal window and curtain walling manufacturers, has accepted an invitation to join the technical committee of the Modular Society.

The Institute of Welding

MR. HARRY WEST, MSC, managing director of AEI (Manchester) Ltd., has been installed as the new president of the Institute of Welding. The Institute's spring meeting, 1962, to be held at Buxton from April 30 to May 4, will be on the theme of 'Welding for Power Generation.' An exhibition, 'Welding Engineering, 1962,' will be staged in the Winter Gardens.

BRS Digest Number No. 12

'STRUCTURAL DESIGN IN ARCHITECTURE' is the subject of number 12 in the Building Research Station's second series of digests. Prepared by an engineer, Mr. R. J. Mainstone, it was arranged to appear at the time of the IUA Congress and its subject matter was stimulated by that event. It represents a statement of one approach to the processes of structural design and as such is not a solution to the whole problem.

Precast Concrete Congress, Stockholm

THE PAPERS AND REPORTS presented at the Third International Congress of the Precast Concrete Industry, held last year at Stockholm, are now available in an English translation. They have been published in two editions, one containing the reports and main papers only (price £3 3s.) and the other the reports and main papers plus the supplementary papers (price £4 4s.). The translations are being distributed by Concrete Publications Ltd., 14 Dartmouth-street, London, SW1, on behalf of the British Cast Concrete Federation.

Typhoons and Building Design

BY SENDING up a radiosonde balloon into the 'eye' of the recent typhoon Alice, the Hong Kong Royal Observatory has gained valuable information for analysis of typhoon winds in relation to building design. 'Opportunities such as this are rare because the chance of a typhoon passing directly over a radiosonde station is extremely small and the calm area ringed by gales usually moves across too quickly to allow an ascent,' said the director of the Royal Observatory, Dr. I. E. M. Watts. The information gained was described as 'unique.'

Safety Training Courses

TRAINING COURSES to be held during the forthcoming session at the Merseyside and North-West Safety Centre at Liverpool begin on September 26 and October 17 for building and civil engineering respectively. The courses, all of which last for two days, continue at intervals until May 22 for building and February 20 for civil engineering. Further details about building courses from Mr. A. H. Johnson, 31 Beaumaris-drive, Thingwall, Heswall, Wirral; and about civil engineering courses from the Federation of Civil Engineering Contractors, North Western Section, 1 Princess-street, Albert-square, Manchester 2.

Yorkshire Building Firm Taken Over

MESSRS. RICHARD COSTAIN have taken over the Thornaby, Yorkshire, building firm of Moorhouse and Barker. The Yorkshire firm is an old-established one which has concentrated solely on house building. The site management will remain in the hands of Mr. Stanley Hird, a former director of the company. The new managing director will be Mr. Norman Paul, the general manager (Northern area) for Richard Costain.

Redevelopment at Bromley, Kent

BROMLEY (KENT) BOROUGH COUNCIL has under consideration proposals for redeveloping an area of approximately 4.9 acres on the western side of Masons Hill, Route A21, adjoining the southern side of the railway and opposite Bromley South railway station. An application for stage I of the scheme was approved by Kent County Council in May, 1960. The borough council has considered designs and tenders for the development which has been approved, but is now of the opinion that it would be advantageous for a more comprehensive scheme, including in addition stages II and III, to be the basis of competitive design and tendering. In order to put this wider scheme into effect, it is necessary for the council to acquire a number of properties in the areas covered by stages II and III, which it has not been able to purchase by agreement. The proposal includes new shops and 8-storey office buildings with car parks, the closing of Simpsons-road and the ultimate erection of a multi-storey public car park.

Personal Column

MR. S. J. PARSONS has been appointed general manager of the electrical division of The Expanded Metal Co. Ltd.

Blaw-Knox Ltd. has appointed MR. EDWARD GOODWIN engineering manager of the company.

Formerly the company's general sales manager, MR. J. F. D. WOOD has now been appointed sales director of Sanders & Forster Ltd., Essex.

MR. W. T. HURWORTH, advertising manager of the Pollard Group of Companies, has retired after nearly 50 years with the company. He is succeeded by Mr. A. G. Driver.

C. H. Johnson (Machinery) Limited has appointed MR. IAIN ASHCROFT, 'Craigleith,' 22 Glen-rd., Old Kilpatrick, Glasgow (tel. Bowling 1099), as Scottish area manager for both the contractors' plant division and materials handling division.

MR. F. J. FRENCH, sales manager of Medway Buildings & Supplies Ltd., of Rochester, Kent, has been appointed to the board of directors of the company.

Trade News

Firm to Absorb Costs

THE REFRIGERATION division of Pressed Steel Co. Ltd. announce that all extra costs arising from the Chancellor of the Exchequer's July 'budget' will be absorbed by the company and not passed on to the consumer.

No Increase in Prices

W. H. PAUL LTD., of Breaston, Derby announce that there will be no increase in the prices of their stainless steel fabrications and kitchen equipment, which include the Paul 'Warma' and 'Warmette' heaters. The 10 per cent purchase tax increase will be absorbed by the company.

Acquisition

THE BOWATER CORPORATION have acquired a majority holding in Module Panels Ltd. of St. Albans. For the past few years this company have been manufacturing the range of acoustic, insulating and decorative ceiling panels marketed through Bowaters Sales Co. Ltd. The acquisition will assist in the closer integration of production and sales.

London Distributors

THE ARBORITE CO. (U.K.) LTD. announce that they have now appointed Heaton Tabb & Co. Ltd., Adelphi Works, Coboldrd., Willesden, London, NW10, as a main distributor for London and the Home Counties. Heaton Tabb are already main distributors of Arborite decorative laminates in Liverpool and Belfast.

Concrete Blocks

HEMEL HEMPSTEAD LIGHTWEIGHT CONCRETE LTD. announce that a hard stone finish has now been added to the colour range of their Hemelite facing block. Following extensive laboratory research they have found that these colours are non-fading and that the facing will not crack, is washable and permanent. The block needs no after-maintenance.

Films about Building Board

TWO SIXTEEN MM SOUND FILMS in colour, made for the Fibre Building Board Development Organisation by Gateway Film Productions Ltd., are available on free loan. The first 'Building with Insulating Board' runs for fifteen minutes and is concerned with the use of fibre insulating board for the construction of ceilings; and the second, 'Handling Hardboard,' runs for eighteen minutes and deals with the working techniques which will ensure perfect results with the various types of hardboard. Further information from FIDOR at Stafford House, Norfolk-street, London, WC2.

Company News

CHAMBERLAIN PLANT LTD. has opened a new depot to serve the north-eastern area of the UK.

THE DE LA RUE CO. LTD. recommend a final dividend of 1s. 6d. per share for the year ending April 1, 1961, on the increased capital of the company.

ROBERTS ADLARD & CO. LTD. recommend the payment of a final dividend of 12½ per cent (less tax) on the shares of the company for the year ended March 31, 1961.

OUTSTANDING OBLITERATION

Above illustration shows effect of one coat (thinned with quarter gallon of White Spirit to one gallon of paint), on old factory roof which was almost black with age and dirt.

TREMENDOUS SQUARE YARDAGE

On big wall areas, using large brushes, this material may be thinned up to the proportions given above and will cover up to 131 sq. yds. per 1¼ gallons of thinned material, depending upon the surface and conditions.

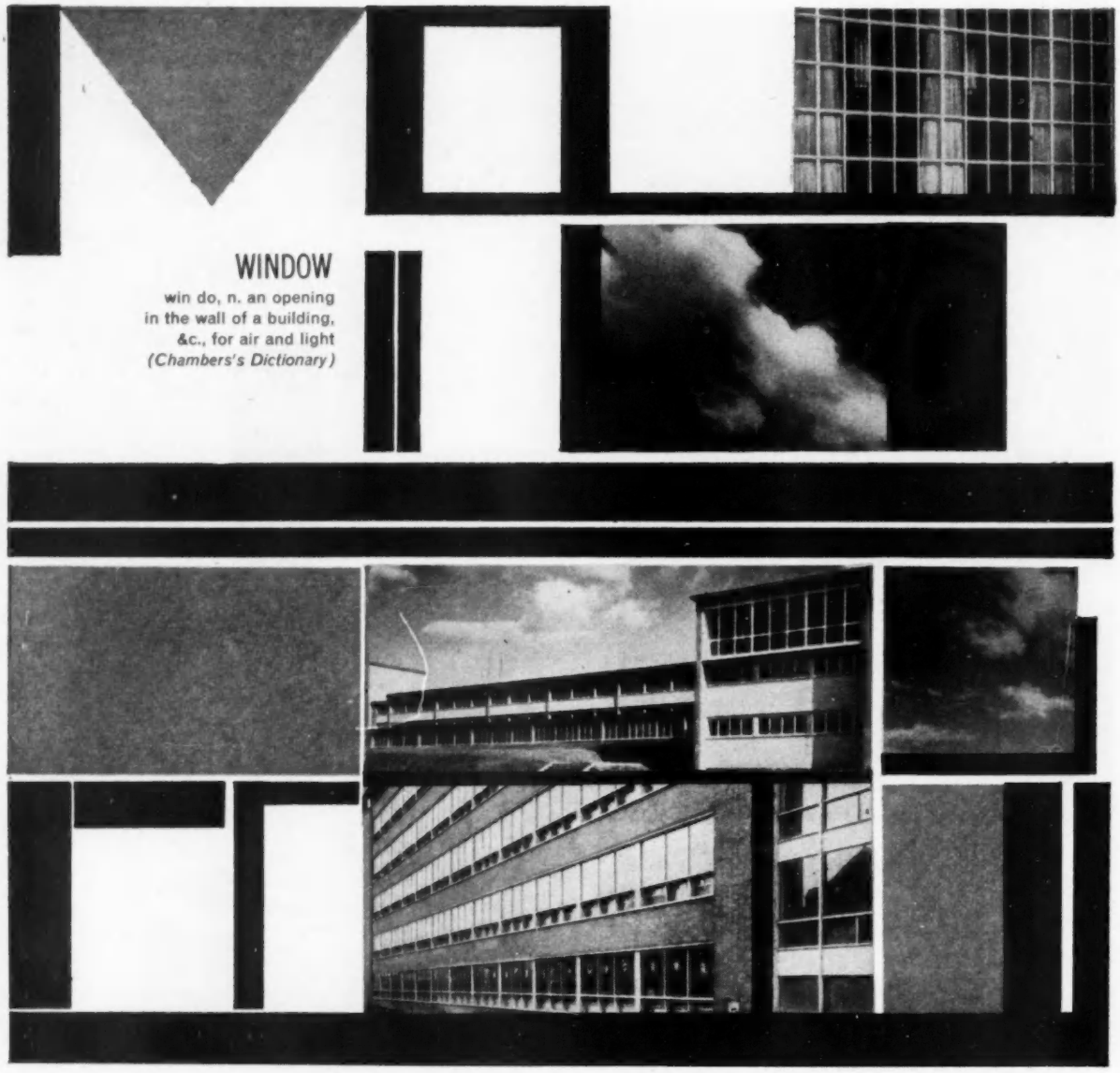
MANDERS

For use as an exterior/interior undercoating or as an interior wall finish. Easy to apply, complies with the 7-year clause in the Factory Act and, whilst two coats will always cover even the blackest conditions, one coat will normally give ample obliteration. Ask for details of this time and money-saving material to be sent to you . . . NOW !

HEAVY BODIED OBLITERATING WHITE

***Made by* MANDER BROTHERS LTD. (Dept. C 8) Wolverhampton, England**

Service Branches and Stockists throughout Britain.



THE
Braby
DEFINITION

a metal-and-glass unit designed for precise architectural needs, made with care, delivered with speed.

The range of Braby Metal Windows in steel and aluminium will meet with exactness all demands you make.

Other Braby metal components for the Architect include metal partitions; copper, zinc and aluminium roofing; aluminium and steel curtain walling; pressed-steel internal stairs; fire escape stairs and pressed-steel door frames.

ARCHITECTURAL DIVISION
FREDERICK Braby & CO LTD

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CRAYFORD LIVERPOOL GLASGOW BRISTOL BELFAST PLYMOUTH

MEMBER OF BRABY OF BRITAIN GROUP

AP 212

Expansion in Cement Production

Increased Demands Expected from Building Industry

PRESIDING at the annual general meeting of The Associated Portland Cement Manufacturers Limited, held in London on July 25, MR. J. A. E. REISS, BEM (the chairman), commenting on the trading results and prospects for the current year, said that deliveries at home were up by about 8.8 per cent on last year and, in fact, they were having the greatest difficulty in meeting the demands at home. Profits, too, on the home trade were showing an improvement on last year which, of course, had been rather disappointing so far as profits were concerned.

Mr. Reiss added that, as stockholders had probably seen, two or three of their competitors had shown a greater increase in deliveries this year than they had, but that of course was because those companies were not working to full capacity last year and therefore had stocks to draw on, which Associated Portland did not have.

Mr. Reiss continued: 'So far as exports are concerned, we have had to reduce these to a certain extent to help the home market, but I think I ought to say that the oil duty of £2 a ton introduced in the middle of April has encouraged us to reduce them a good deal more. As it is, you know that we make a very moderate profit on exports, and the effect of this oil duty on oil fired works—and most of our exports come from oil fired works—is to increase the cost of those works by about 12½ per cent which has really priced us out of a large part of our export markets.

'We are still continuing to export to one or two markets that are still just profitable, but we have reluctantly had to let go quite a few of the smaller markets which we were hanging on to. This oil duty has left us with no alternative but to gradually close down our trade in those areas. This, I must remind you, is a direct result of part of the Government's fuel policy.'

Future Prospects

Regarding future prospects, Mr. Reiss said: 'I think the outlook for the building industry and, therefore, for us is very bright, subject of course to anything that the Chancellor may have to say in about three hours' time. The building industry output is about 10 per cent higher this year than last year, and the plans we have made to expand by a million tons at home by 1963 have now had to be altered. We are now planning an extra half-million tons on top of that, and we are trying to do it as fast as we can.'

Mr. Reiss also commented on the frustration confronting anyone trying to get a project moving quickly and cited the case of the new works at Westbury. Here, owing to a fresh public inquiry which had been held last week, the building programme was some four months behind. It had been decided to add a third kiln at Couldon Works and it now seemed very probable that this kiln would be in operation before Westbury although the decision to build it was made some 12 months later.

Industrial Building

Figures for Second Quarter, 1961

PROVISIONAL figures of industrial building schemes for which Industrial Development Certificates were issued during the second quarter of 1961 are as follows:

	No. of schemes	Total area (million sq. ft.)
STANDARD REGIONS:		
1961: 2nd quarter—		
Northern	52	1·2
East and West Ridings	56	0·9
North Midland ...	68	1·0
Eastern	66	1·2
London and S. Eastern	99	2·4
Southern	41	1·7
South Western ...	34	0·5
Wales	34	0·6
Midland	78	1·6
North Western ...	79	1·6
Scotland	33	0·8
GREAT BRITAIN:		
1961: 2nd quarter ...	640	13·5
1st quarter ...	630	17·3
1960: 2nd quarter ...	1,024	23·8

The above figures relate to all schemes for which certificates were issued under the Local Employment Act, 1960. Figures on this basis are available only as from the second quarter of 1960. Prior to this the figures related to manufacturing industry only; figures for this coverage continue to be prepared but are not yet available for the second quarter of 1961.

Sand and Gravel

Record Production in 1960

STATISTICS of sand and gravel production in various areas in Great Britain published by the Ministry of Works on July 18 in a leaflet 'Sand and Gravel Production 1959-1960' (HMSO, price 1s. 3d.) show that output of aggregates in Great Britain reached a new record level of 64.5m. cubic yards in 1960—11 per cent higher than in 1959.

In general, output has increased in all regions excepting Middle Anglia where the 1959 output was abnormally high because of the demand for aggregates used in the construction of the M1 motorway.

An innovation in the current publication is the inclusion of a revised estimate of future demand. In their reports (HMSO 1948-1953) the Advisory Committee on Sand and Gravel estimated a maximum future demand for sand and gravel for each service area. These were reproduced in the 1958 leaflet. Since the committee's reports were published production has risen considerably in all but three of the service areas; in many instances it is twice and in some areas more than three times as high as the Advisory Committee's estimate.

Because of the large increase in the use of aggregates brought about by the rising volume of construction work and the consequent development of concreting techniques the Ministry of Works, in consultation with the Ministry of Housing and Local Government, has revised the original estimates, taking into account production trends over the past ten years. Figures given in the leaflet suggest that the demand for sand and gravel will continue to increase, although not necessarily as rapidly as in the last two years, and that the total demand in England and Wales may reach 73m. cubic yards before 1970.

Bricks and Cement

Increases in Production

ACCORDING to figures collected by the Ministry of Works, 666m. bricks were produced in Great Britain during June. During the first six months of this year total production of bricks has been nearly 3 per cent higher than in the same period last year, and 115m. more bricks have been delivered, an increase of about 3 per cent over last year.

During the five weeks commencing May 30, 1,476,000 tons of cement were produced. Production in the first half of this year was almost 8 per cent higher than in the same period last year and deliveries were about 11 per cent higher. Imports have more than doubled (from 18,900 tons in 1960 to 47,000 tons in 1961), and exports have fallen by about a quarter (from 515,000 tons to 379,900 tons).

Sub-Contract Forms

Recommendations on Procedure

THE National Federation of Building Trades Employers and the Federation of Associations of Specialists and Sub-Contractors have called the attention of their members to the desirability of each party to any sub-contract agreement having a complete copy signed by the other party.

In the opinion of the two Federations, the best practice where there are no amendments to the form of sub-contract is for the contractor to prepare two copies of the form of sub-contract, to sign and stamp one himself and to send the other to the sub-contractor for signing and stamping. The signed and stamped copies can thereafter be exchanged.

Where there are amendments to the sub-contract documents, both parties may wish to have the opportunity to see the copies side by side. It is, therefore, recommended that the contractor should prepare two copies, initial all amendments, and send both copies to the sub-contractor. The sub-contractor will initial the amendments on both copies. He will stamp and sign one and return both to the contractor. The contractor should then stamp and sign the other and return it to the sub-contractor.

OVERSEAS BUILDING

From Our Own Correspondents

AUSTRALIA (VICTORIA).—The Rio Tinto Mining Company is to build a clay brick-making plant in Melbourne at a cost of £A2m.

CANADA (PRINCE EDWARD ISLAND).—A $1m. dormitory building is to be constructed at Prince of Wales College.

CANADA (SASKATCHEWAN).—A multi-million dollar construction programme, for International Minerals and Chemical Corporation (Canada) Ltd., will start this summer, near Esterhazy. . . . Announcement has been made that $4.3m. will be spent on construction at St. Paul's Hospital, Saskatoon. . . . A $1.25m. expansion is to be constructed to Consumers Co-Operative Refineries at Regina. . . . Construction of a new art centre is being planned for Saskatoon.

CHILE.—The Sociedad Constructora de Establecimientos Hospitalaros of Chile has called tenders for the construction of 26 hospitals at various places throughout the country. Details of the whole programme of closing dates for offers, which range from July to December next, and other information, are available from the Departmento de Arquitectura of above mentioned company at Calle Ahumada 236, 7° piso, Santiago, Chile.

NEW ZEALAND.—The Wellington (New Zealand) Harbour Board has approved a plan for a comprehensive £720,000 overseas passenger terminal at Clyde Quay Wharf. It incorporates restaurant, escalators and other passenger facilities.

NEW ZEALAND.—South Pacific Airlines plans to build its own airport at Taupo, to be ready later this year.

NIGERIA.—A £2m. asbestos cement factory is to be built by the British firm of Turner and Newall Ltd., near Enugu in Nigeria, to produce 17,000 tons of asbestos products a year. The market will include Eastern, Northern and a large part of Western Nigeria. The new factory will cover 120,000 sq. ft. on a site of 16 acres and the cement will come from an established factory at Nkalagu, 20 miles away.

NORWAY.—Following successful mortgage arrangements, the financing of the new car factory—to be established in Norway by British industrialist York Noble—is now reported to be secured. The plant, to be constructed at the town Norten on the Oslo Fjord, is designed to turn out a small car to be called 'Noble Viking.'

SOUTH AFRICA.—A road programme costing £44,300,000 is under way in South Africa. In the current financial year some £13¼m. will be spent on building and mantenance. The expenditure per Province will be: Transvaal, £20,450,000; Cape, £10,850,000; Natal, £6m.; and the Free State, £5m.

SYRIA.—The Syrian Government is to build a S£3m. factory for manufacture of TV sets, near Damascus.

Prefabricated House Demand, Germany

AN increasing interest in prefabricated houses is being shown in Western Germany, where a marked heavy demand exists for the bungalow-type Swedish houses. These are prepacked in large cases, weighing 6-8 tons, and transported by rail.

Export of Construction Equipment

BRISTOL PNEUMATIC TOOLS LTD., the company which makes a comprehensive range of air compressors, has broken into seven additional overseas markets. Orders have been booked from 24 countries since the beginning of the year, and exports to Europe, the Middle East and the Far East have increased by 25 per cent.

Colonial Development

Large Grants for Education

GRANTS made under the Colonial Development and Welfare Act during June amounted to £3,370,646 and bring the total approved for schemes to benefit Britain's oversea territories during the first half of 1961 to £16,153,812. Of educational grants totalling £1,250,048, Makerere College, UGANDA, benefited by £551,354, including a grant of £250,000 to replace Mitchell Hall (which houses 153 students in the original school buildings erected in 1923) by a new Hall. Largest of the grants for education was £290,075 to BRITISH GUIANA towards the cost of providing 16 new primary schools and improving existing schools.

Other major grants made during June included: £500,000 for MALTA's Aids to Industries scheme; £215,854 for road improvement works in FIJI; £118,562 towards the cost of the Jesselton/Paper road in NORTH BORNEO, and £108,000 for land acquisition and resettlement in NYASALAND.

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Light Sea Green Slate

from our quarries on a 1500 ft. contour in the heart of the English Lake District where this volcanic slaterock has been extracted for over 200 years.

Illustrated details on request or Cladding, Cills, Coping and Flooring etc.

KIRKSTONE GREEN SLATE QUARRIES Ltd.

Ambleside Westmorland

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SCOTTISH BUILDER

Re-siting of Edinburgh School

THE Royal High School, Edinburgh, one of Scotland's oldest and historic schools, is to be moved from Regent-road, on the lower slopes of the Calton Hill, to a new site, probably on the outskirts of the city at Barnton.

Sketch plans for the new school are to be prepared immediately. This was decided at a recent meeting of the Town Council's Education Committee. Cost thought to be in the region of £550,000.

Draft Building Regulations

THE Secretary of State for Scotland, Mr. J. Maclay, has issued draft regulations designed to replace existing building by-laws and other requirements, which have been condemned as 'confusing, restrictive and in parts archaic.' In a written Commons answer on July 27, Mr. Maclay said that the Draft Building Standards (Scotland) Regulations, 1961, were now ready and on sale, together with an explanatory memorandum which incorporated the report of the Building Standards Advisory Committee.

US Base for Caithness

THE Ministry of Defence has announced that the United States Navy is to establish a ship-to-shore communications station near Thurso, Caithness, to keep track of her radar picket escort vessels operating in the North Atlantic and the North Sea. The entire financial obligation for building the base will be borne by the US Government.

New Terminal Building, Prestwick

WORK HAS now commenced on the site of the new terminal building and apron at Prestwick Airport. The new £3m. airport, with a private enterprise hotel costing £750,000 more, is due to be completed by the end of 1963. Between 50 and 60 acres of the former St. Cuthbert's golf course will be used for the terminal building, hotel apron, parking apron, and ancillary buildings.

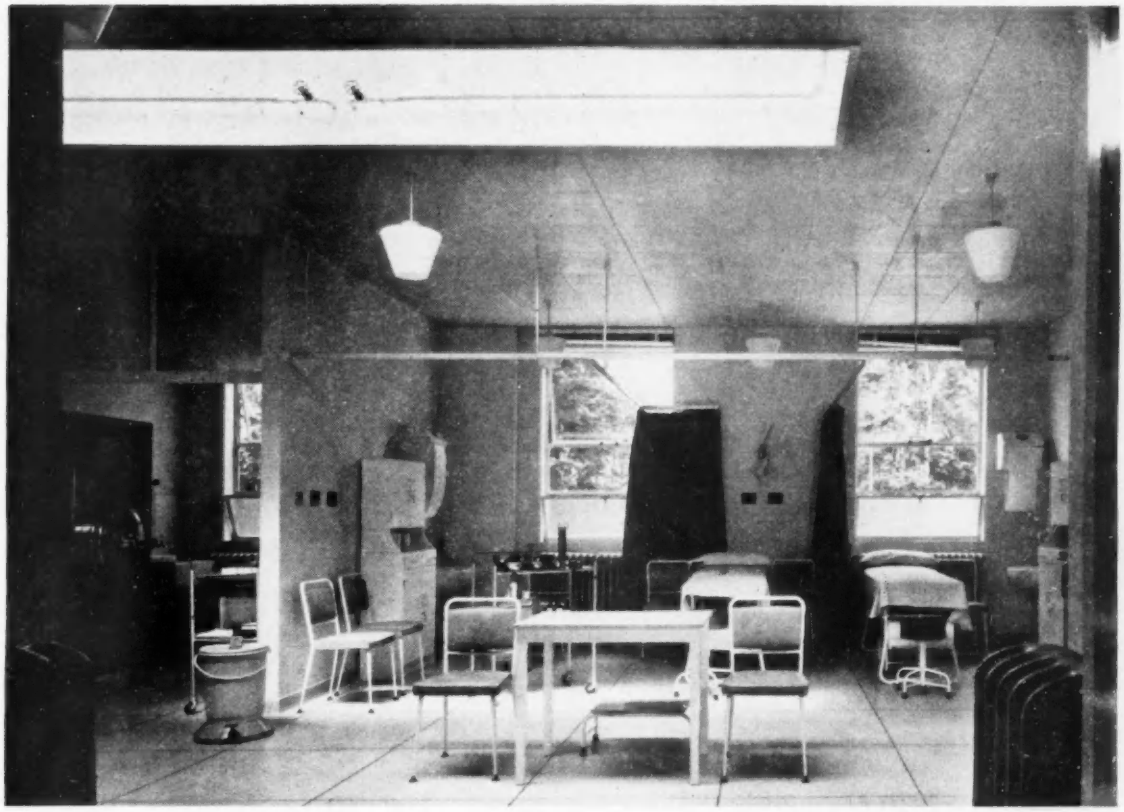
New Buildings

AYR.—Plans for private housing developments in various parts of Ayr, costing an estimated total of £35,400, have been passed by the Dean of Guild Court.

EDINBURGH.—The Corporation's Transport Committee has approved plans for a 'bus depot to be built at Marine Gardens, Portobello. Est. cost is £220,000. The depot will have parking facilities for 150 cars and 60 coaches. Architects: Messrs. T. Bowhill, Gibson & Laing.

KELSO.—A new factory is to be built here by Peter Scott & Co. Ltd., the Hawick knitwear manufacturers.

WIGTOWN.—CC is to proceed with the second phase of the Penwhirn Burn water scheme, involving eight miles of 12-in. dia. spun iron pipeline from Knock Fell to Eldrig; and construction of an rc tank of 150,000-gallon capacity. Crouch & Hogg, engrs., 18 Woodside-cres., Glasgow, are consultants.



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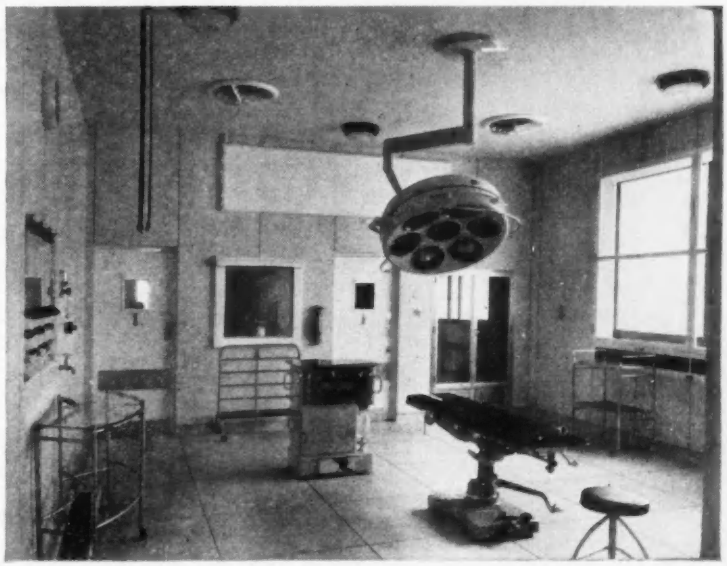

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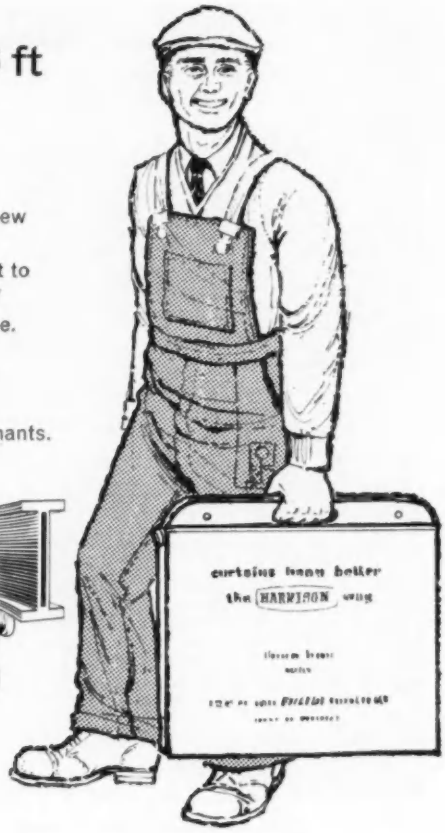

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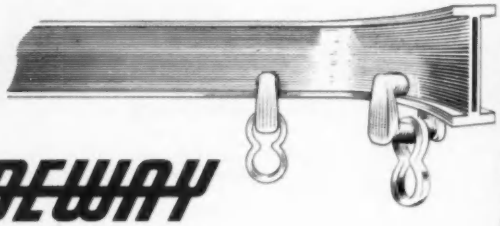

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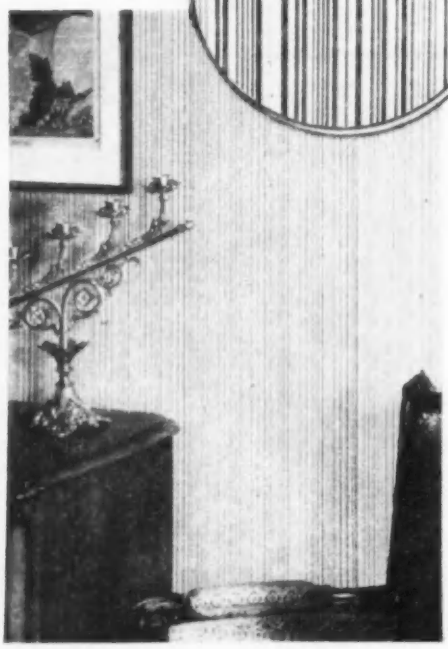

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Full details of Public Appointments open will be found in the Advertisement pages of this and previous issues.

CONTRACTS OPEN

For some contracts still open but not included in this list, see previous issues. Those preceded by the symbol (A) are advertised in this number. The latest date for the receipt of tenders or applications appears above each paragraph. The symbol (R) preceding each entry indicates that application must be received by this date.

BUILDING

AUGUST 9

BELFAST.—Erection of 34 flats and maisonettes at Mount Vernon estate extension. City A. Dep. £5.

(AR) TAUNTON BC.—Reorganisation of cattle section at livestock market. Boro' E. Dep. £2 2s. Tenders by Sept. 11.

AUGUST 11

(AR) CUMBERNAULD DEVELOPMENT CORPN.—Erection of 443 dwellings at Cargrain 3 and 4. Ch. A.

AUGUST 12

(AR) ESSEX CC.—Erection of Myland CP sch., Colchester. County A.

(AR) PLYMOUTH CITY C.—(a) Erection of 33 flats at Granby Way, Devonport; (b) 23 flatlets, six flats and a warden's flat at St. Mary-st., Stonehouse; (c) conversion of the ground floor and portion of first floor of engineering block of Plymouth Technical College. City A. Dep. £3 3s. (each contract).

AUGUST 14

(AR) BROMLEY BC.—Construction of a sports pavilion at Norman Park. Boro' E.

(AR) CAMBRIDGE CITY C.—Erection of 12 maisonettes, six shops, four terrace houses and 26 old people's homes at East-rd. redevelopment area. City E. Dep. £2 2s.

AUGUST 17

DOWN CC.—Erection of a new child health clinic and library at Glen-rd., Braniel. County Planning Officer, English-st., Downpatrick, Co. Down. Dep. £3.

(AR) IPSWICH CBC.—Erection of 126 dwellings at Chantry estate (three contracts). Boro' E&S. Dep. £3 3s. (each contract). Tenders by Sept. 21.

(AR) WANDSWORTH MBC.—Conversion works at Clapham. TC.

AUGUST 18

(AR) IPSWICH CBC.—Fixed price tenders for 250 garages (five contracts), etc., on various sites. Dep. £2 2s. (each contract). Tenders by Sept. 26.

(AR) SURBITON BC.—Erection of 32 houses at Middleton estate. TC. Tenders by Oct. 6.

AUGUST 21

BUNCRANA UDC (Eire).—Erection of 12 houses, with development and other works, at Ardaravan. TC. Dep. £10 10s.

AUGUST 23

(A) POOLE BC.—Erection of 50 permanent beach huts at Branksome Dene Chine. Boro' A. Dep. £2 2s.

AUGUST 25

(A) LETCHWORTH UDC. — Firm price tenders for additional changing rooms at swimming pool, Icknield-way. E&S. Dep. £2 2s.

ROSCOMMON (Eire).—Erection of a new factory. J. Colman Healy, quantity surveyor, 46 Upr. Mount-st., Dublin. Dep. £10.

AUGUST 28

(A) NEWBURY BC.—Erection of eight blocks of four flats at Turnpike-rd. housing estate. Boro' S.

(A) WEST RIDING OF YORKSHIRE CC. —Formation of new drill yard at Cleckheaton fire station. Divisional A.

AUGUST 31

(AR) GLAMORGAN CC. — Inclusion in selected list of approved building contractors. Clerk to C.

SEPTEMBER 1

(A) MIDDLETON BC.—Fixed price tenders for three shops and two dwellings at Pine-st. Boro' S. Dep. £2 2s.

SEPTEMBER 4

(A) BROWNHILLS UDC.—Erection of 17 dwellings at Field-la., High Heath, Pelsall, and three dwellings at Chester-rd., Shire Oak, Brownhills. E&S. Dep. £2 2s.

SEPTEMBER 6

(A) MORECAMBE & HEYSHAM BC.—Erection of eight flats at Branksome-dr. estate. Boro' E&S. Dep. £2.

SEPTEMBER 7

(A) GUILDFORD RDC.—Fixed price tenders for erection of 142 garages and ancillary works at various sites, divided into two groups: (a) East-78, (b) West 64. E&S. Dep. £2 2s. (per group).

SEPTEMBER 8

(A) BOURNEMOUTH CBC.—Fixed price tenders for: (a) Provision of new cloak and sanitary accommodation at Malmesbury Park CP sch., Malmesbury Park, and (b) Pokesdown CP sch., Livingstone-rd. Boro' A. Dep. £2 2s. (each contract).

(A) NEWMARKET UDC.—Erection of four houses and six flats at Mill-la., Exning. A to Council. Dep. £2 2s.

SEPTEMBER 11

(A) GOSPORT BC.—Erection of a single-storey shop, etc., at Trinity Green. Boro' E. Dep. £2 2s.

(A) HASTINGS CORPN.—Fixed price tenders for 29 dwellings at High Bank/Gurth-rd./Rectory site/Belmont-rd. Boro' S. Dep. £2 2s.

SEPTEMBER 12

(A) DARLINGTON CBC. — Proposed Branksome sec. sch. Boro' A. Dep. £2 2s.

NO DATE

(A) DURHAM CITY C.—Erection of 26 dwellings at Grape-la., Crossgate. City E. Dep. £2 2s.

SERVICES, PAINTING, MATERIALS, ETC.

AUGUST 8

(A) EALING BC.—Demolition of temporary building at rear of town hall, and 191 Boston-rd., Hanwell. Boro' E.

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AUGUST 11

(AR) SWANSEA CBC.—Heating, hot and cold water services for the Morfydd House day special sch., Morriston, Swansea. Boro' A. Dep. £2.

AUGUST 21

(A) HEMEL HEMPSTEAD BC.—Supply and erection of 1,940 approx. runs of cleft chestnut fencing on various sites. Boro' E.

AUGUST 25

(A) CARDIFF CITY C.—Fixed price tenders for alterations to elevation and roof at transport depot, Sloper-rd. City A. Dep. £2 2s.

AUGUST 29

(A) CARDIFF CITY C.—Fixed price tenders for the supply, delivery and installation of an electrically-operated passenger lift at aged persons' home, Llanishen. City A. Dep. £2 2s.

SEPTEMBER 5

(A) HARROW BC.—Renewal of existing lead rising mains and cold water services, including stop valves, etc., at Elmgrove estate. Boro' E. Dep. £2.

SEPTEMBER 15

(A) BECKENHAM BC.—Erection of four brick-built dressing rooms as an addition to 'Harvington,' South Eden Park-rd. Boro' E. Dep. £2.

SEPTEMBER 17

(A) PORT TALBOT BC.—Erection of three r.c. structures consisting of two beach kiosks and shelter at the Aberavon Promenade. Boro' E. Dep. £2 2s.

NO DATE

(A) BIRMINGHAM CITY C.—Acceptance in an approved list of branded silicone waterproofing solutions for brickwork, etc. Housing Mgr.

MUNICIPAL AND CIVIL ENGINEERING WORKS, ETC.

AUGUST 21

EAST KESTEVEN RDC.—Construction of approx. 5,600 yd. of 6-in. dia., 2,400 yd. of 9-in. dia. and 2,125 yd. of 12-in. dia. concrete pipe sewers, with 1,600 yd. of 4- and 5-in. dia. asbestos cement rising mains, etc., for Heckington and Gt. Hale sewerage scheme. John H. Haiste & Ptnrs., engrs., 20 Wood-la., Headingley, Leeds 6. Dep. £3 3s.

AUGUST 22

STAFFORDSHIRE CC.—Widening of approx. 3½ miles of the Birmingham-Wolverhampton trunk road, Coseley. Clerk to C. Dep. £5.

AUGUST 31

DUBLIN CORPN.—Construction of Richmond-rd. sewerage scheme (North Dublin drainage scheme, contract 25B). Engineering & Town Planning Dept., 28/29 Castle-st., Dublin. Dep. £10 10s.

SEPTEMBER 1

EAST LOTHIAN WATER BD.—Laying and jointing of a 9-in. dia. steel pipeline for a distance of approx. 5,800 lin. yd. and a 6-in. dia. asbestos-cement pipeline for a distance of approx. 3,330 lin. yd. G. H. Hill & Sons (Manchester), engrs., 51 Mosley-st., Manchester. Dep. £5 5s.

PETERBOROUGH RDC.—Construction of concrete reservoir of 100,000 gal., etc., at Castor, Ailsworth, Upton and Sutton reservoir station and water mains. Stirling & Maynard & Ptnrs., engrs., 8 Station-chbrs., Peterborough.

SEPTEMBER 4

FOREHOE & HENSTEAD RDC.—Fixed price tenders for the construction of 17,400 yd. of 9-in. and 6-in. dia. sewers, manholes, one off-site pumping station, and 1,350 yd. of 10-in. dia. spun-iron rising main, and extensions to an existing sewage disposal works, comprising detritus tanks, settlement tanks, filter beds, humus tanks, sludge drying beds, sludge digestion tanks, site pumping station, and other appurtenant works, at Costessey sewerage & sewage disposal works. Elliott & Brown, engrs., Stanley-hse., Pelham-rd., Notts. Dep. £5 5s.

GENERAL BUILDING WORK (LONDON)

LEYTON. — Redevelopment.—The Boro' E&S has submitted an outline plan to the Council in connection with proposals for the redevelopment of the Oliver-st. redevelop-

ment, and the Council has authorised the Boro' E&S to invite tenders from John Laing Ltd., G. Wimpey & Co. Ltd. and Wates Ltd. for the erection of three 17-storey blocks.

LONDON (City).—The following have been passed by the Court of Common Council: Permission for development of Moorgate Station (Metropolitan), extending from Moorfields to Moor-la., for use as offices and shops and incorporating the railway station entrance. L. Solomon, Kaye & Ptnrs., of Holborn Circus, and Trehearne & Norman Preston & Ptnrs., of Kingsway, WC2, are the architects. Permission was given, subject to certain conditions, for an office block with shops at Cheapside/King-st./Lawrence-la. and parts of Freemans-ct. and Lawrence-la Architects are Green, Lloyd & Son, of Pickering-pl., SW1. Drawings for a 15-storey building with basement car park at Fetter-la., parts of West Harding-st. and 7 Gt. New-st. and West Harding-st., were approved, subject to certain conditions. C. E. Wilford & Son of Green-st., W1, are the architects. Drawings were also approved for a warehouse, offices, shops, licensed premises and four residential units in a penthouse at St. Alphage-hse., London Wall. Collins & Collins & Rawlence & Squarey of Westland-hse., Curzon-st., are the architects.

Drawings were also approved for the following developments: A six-storey office building with a flat on the sixth floor and a basement car park at St. Mary Axe/Beavis Marks/Goring-st., architects K. Lindy, J. Hill & Ptnrs., of St. Mary Axe; office building with four retail shops, licensed premises and a bank on the ground floor at King William-st./Crooked-la./Arthur-st. and Crooked-la.—Knapton, Deane & Ptnrs., of Catherine-pl., SW1, architects; single-storey shops and improvement of the entrance to Hamilton-hse. for 20 years at Bishopsgate—chief civil engineer, Eastern Region, King's Cross Station; a 19-storey office building with shops, a public house, restaurant and basement car park at Lee-hse., London Wall—R. Gold & Ptnrs., of Savile Row; a new building for use as a warehouse, offices, shops, licensed premises and four residential units in a penthouse at Fore-st./London Wall/Wood-st./Aldermanbury-ave./Philip-la./Aldermanbury/Aldermanbury Postern/New Basinghall-st. Collins & Collins & Rawlence & Squarey, architects; new building for use as a Livery Hall for the Worshipful Company of Salters with ancillary offices at parts of Fore-st./Aldermanbury Postern/London Wall—Easton & Robertson, Cusdin Preston & Smith, of Bedford-sq., architects.

Development of a six-storey building for use as a bank with offices above, a basement car park and sub-basement for bank vaults at Lombard-st./Clements-la. was also approved conditionally. M. H. J. Bebb, of Gresse-st., W1, are the architects. Further approval was given for putting up a four-storey building for use as a yacht club headquarters, ship chandler's showrooms and a public house on a site bounded by Queen-st.-pl./River Thames/Public Cleansing Depot/and the 'Zidpark'. C. E. Wilford & Son are the architects.

LONDON. — Teaching Hospitals. — The Minister of Health has agreed in principle that the majority of the London postgraduate teaching hospitals, instead of remaining widely scattered, should gradually be grouped together in two main groups—one in Bloomsbury and the other in Kensington/Chelsea. In the latter group the Brompton Hospital (with which the London Chest Hospital is to be combined) and the Royal Marsden Hospital will be developed on their present sites in the Fulham-road. With them will be grouped St. Peter's, St. Paul's, and St. Philip's Urological Hospitals, St. John's Hospital for Diseases of the Skin, St. Mark's Hospital for Diseases of the Rectum and Colon and eventually, the National Heart Hospital and the Institute of Cardiology. These proposals involve the redevelopment of the sites now occupied by the Chelsea Hospital for Women and St. Luke's Hospital. The Chelsea Hospital for Women will be rebuilt adjacent to Queen Charlotte's, Ravenscourt Park. The chief architect to the Ministry of Health is Mr. W. E. Tatton Brown, MA, ARIBA, 23 Savile-row, W1.

Contracts Placed

We are glad to receive from architects and quantity surveyors for publication details of contracts placed to the value of £20,000 or over. Such information should reach the Editor as soon as possible after the contract is signed. Names of the architect and other consultants associated should be given.

ST. PANCRAS.—Redevelopment.—BC has approved erection of shops, flats and basement carpark on site of Odeon cinema, Tottenham Court-rd.

(PROVINCIAL)

ANDOVER.—Purley Development Co. Ltd. propose an 8-storey block of 32 flats and garages in grounds of Millway Lodge. . . . NW Hants Area Planning Committee recommend permission be granted for: erection 3 pairs of bungalows at corner of Monxton-rd./Monxton-la., Monxton; erection of sewage pumping station and disposal works at Hurstborne Priors pumping station, St. Mary Bourne, for Kingsclere & Whitchurch RDC; erection of 4 pumping stations and sewage disposal works in connection with Stockbridge main drainage scheme for Romsey & Stockbridge RDC; and recommend no objection in principle to WD's proposal to build 60 married officers' quarters at Middle Wallop airfield.

ATHERTON.—UDC propose residential development on 5 acre site at Flapper Fold-la.

BISHOP AUCKLAND.—The Swale Estate, South Church-rd., Bishop Auckland, are seeking permission to erect a dance hall and restaurant.

BOLDON (Co. Durham).—Gordon Durham and Co. Ltd., builders and contractors, Moor-la., East Boldon, are seeking permission to develop a private housing estate at Newcastle-rd., West Boldon.

CHESTER.—The Michelin Tyre Co. Ltd. propose developments at Sealand-rd., trading estate. . . . The Governors of Queen's School propose erection of domestic science room, science block and classrooms at rear of 8-12 Stanley-pl., est. £75,000.

CHESTERFIELD.—RC Auth. propose erection of two new schools at Newbold/Bacons-la., Birdholme. . . . BC to allocate 11 acres land at Walton Hall Farm housing estates for private residential development.

CHRISTCHURCH (Hants.).—Tuckton Investments Ltd. propose erection of 3 blocks, each of 24 flats and garages and construction of an access on waste land in Stour-rd.

CLIFTON.—Weston-Evans Holdings Ltd. propose extensions to Thos. Bradford Ltd.'s works, est. £60,000.

COLWYN BAY.—Denbighs CC propose erection of sec. mod. sch. adjacent Glan-y-Don Hall. . . . BC propose erection of 14 bungalows and 4 flats at Tan-y-Lan-rd., Old Colwyn.

DROXFORD (Hants.).—RDC propose purchasing 6 acres of land at School-rd., Wickham, for residential development of 50 houses.

ELING (Hants.).—Ministry of Agriculture has given Eling PC permission to go-ahead with building combined council offices and community centre at Testwood civic centre site.

HARROGATE. — On July 24 the TC approved a private enterprise scheme for the provision of 170 luxury flats in three 12-storey blocks, 120ft. high, and 30 maisonettes costing £1,400,000 at Park-pl., Harrogate. The site, overlooking the Stray, is that of a Georgian mansion which is to be demolished. Mr. Charles A. Neale, who has been responsible for large post-war schemes in London, Bournemouth and Eastbourne, controls the company. The blocks when completed will be the tallest buildings in Harrogate and will afford a view of York Minster, 22 miles away. Cream and brown bricks and stonework will be predominantly used for elevations and a good deal of glass, which will reflect the surrounding trees, will also be used. Space has been earmarked in the grounds for a swimming pool and a bowling green for the residents. It is expected that the biggest flats of three bedrooms will cost about £7,550. Work is expected to commence in two months.

HERRINGTON (Co. Durham).—A scheme is being considered for the erection of new premises, costing £25,000, for Herrington Burn YMCA.

HIGHER IRLAM.—Lancs. EC propose erection of new county library, est. £33,255.

HEREFORD.—City C to invite tenders for the erection of 74 houses and 44 garages on Newton Farm estate.

KENDAL.—BC propose erection of 174 dwellings at Sandylands estate.

LANCS.—Following for EC: Major extensions to Two Trees sec. sch., Denton, £140,268 est.; major extensions at Hulton sec. sch., Worsley, £151,445 est.

LIVERPOOL. — Planning applications approved by City C: Single-storey clothing factory with two-storey offices in St. James-st.; 28 maisonettes at Breeze-la., Walton; youth centre at Mulberry-st. and Myrtle-st.; residential hostel, etc. in Riversdale-rd. (outline application); phase 3 of Faculty of Arts building; City C propose to negotiate with a specified contractor, construction of 2,700 dwellings at the Halewood development.

MANCHESTER.—City C has approved erection of St. Augustine's RC prim. sch. at Chorlton-on-Medlock; new church at West Didsbury; two- and three-storey office block at Clipstone-st., Clayton; petrol filling station, etc., at Cheetham; three-storey block of 18 flats and 16 garages at Summerfield, Chorlton-cum-Hardy; offices, foundry and workshop at Lord-st., Miles Platting; 20 houses off Broad Oak-la., East Didsbury; seven-storey office block with garage at Chorlton-st. / Silver-st. / Gold-st. / Major-st.

MANCHESTER.—At a cost of over £84,000 the City C has approved the building of 44 houses, including 15 old people's bungalows, on land off Nuthurst-rd., Moston.

MANCHESTER.—Following for City C: Major improvement schemes at Ladybarn girls' sec. sch. and Didsbury technical high sch.; site investigation survey for multi-storey development at Denton overspill site; family group home at Moston; youth centre at Woodhouse park area; community centre at Victoria-ave., Blackley; seek site for erection of RC sec. sch. at South Manchester area; temporary classrooms at St. Joseph's RC prim. sch., Longsight. . . . S. Redfern & Co. Ltd. propose erection of offices and factory at Collingham-st., Cheetham. . . . RC Auth. propose erection of new St. Peter & St. Paul sec. sch. . . . L.

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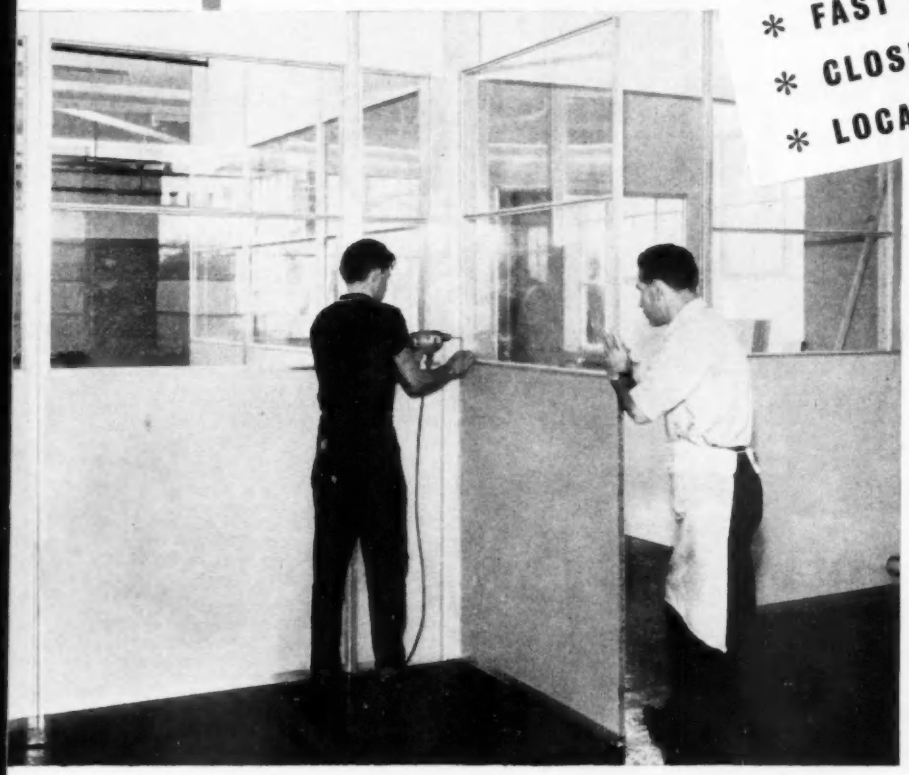

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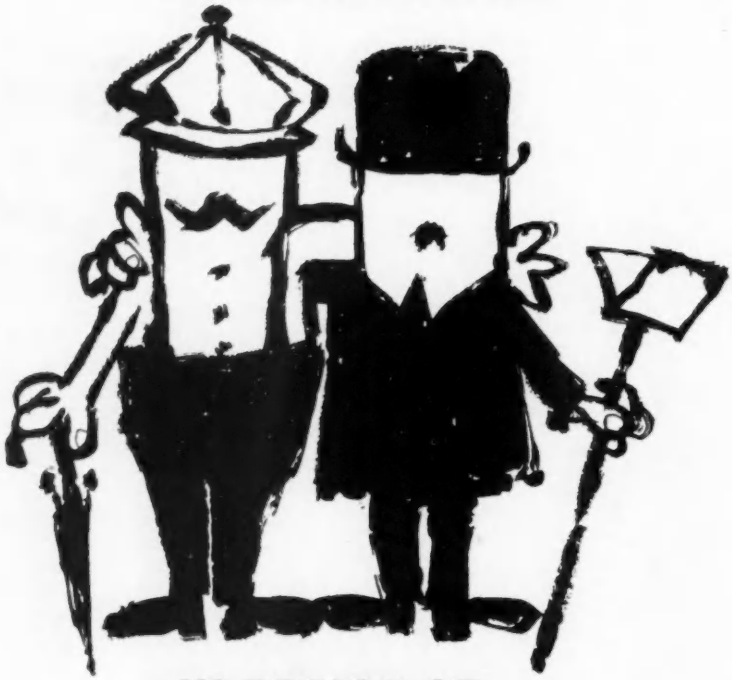

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B/48

OBTAINABLE FROM BUILDERS' MERCHANTS

Kay & Co. (Builders) Ltd. propose erection of a three-storey block of 12 flats and 12 garages at Oak-rd., Withington. . . . The Managers propose extensions to junior dept. of King David prim. sch., Wilton Polygon, Cheetham. . . . Chesters Brewery Ltd. propose erection of new PH at Windermere-rd., Langley. . . . S. B. Harbour proposes erection of supermarket and five shops at Stockport-rd., Brook-ter., Longsight.

NORTH RIDING.—During 1962-63, the CC proposes starting work on the erection of three small schools at Nawton, West Tanfield and Topcliffe. County A. is R. A. Williams.

NORTHUMBERLAND. — EC have approved final plans for the proposed Gosforth county gram. sch., which is estimated to cost £246,000, and the Lemington Claremont sec. sch. estimated to cost £214,000. County A is C. C. Brown.

NORTHWICH.—UDC purchasing 73 acres land at Thorn Farm for residential development.

NOTTINGHAM.—Gordonia Mfg. Co. Ltd. propose erection of new factory at Bilborough.

ORMSKIRK.—Lancs. EC propose erection of St. Anne's prim. sch. at Town End.

ST. ASAPH.—Ega Electrics Ltd. propose erection of new factory planned by Industrial Estates Management Corpn. for Wales.

SEDGEFIELD.—Sketch plans have been prepared for stage 2 of the new male staff hostel at Winterton Hospital for Newcastle Hospital Bd.

SHEFFIELD.—Trust Houses Ltd., London, propose erection of new luxury hotel, ballroom and restaurant at Manchester-rd./Fulwood-rd.

SKIPTON.—Waterhouse (Manchester) Ltd. propose extensions to workshop at Victoria Mills, Cross Hills. . . . Terry of Bradford Ltd. propose erection of 12 pairs of sd houses and bungalows at Homefield Farm, Sutton.

SOUTHPORT.—Howard Estates Ltd., of Southport, have been granted planning permission to build 44 bungalows at Parbold, Wigan.

ULSTER.—In less than six months work is expected to begin on the first part of Newtownabbey (Co. Antrim) Urban Council's £1,000,000 road plan, a feature of which is to be a £60,000 fly-over and dual carriageway at the junction of the Doagh-rd. and the Shore-rd. The only delay at the moment is the acquisition of land. But it is hoped that this will be completed before the end of the year. The plan, which Mr. A. Fitzsimmons, Town Surveyor, and Mr. L. A. Marrs, roads engineer, think will solve this problem, is one of the most ambitious traffic circulation projects in Ulster.

WARRINGTON.—CoE Auth. propose erection of replacement sch. for St. James', Chester-rd.

WEST RIDING. — Central Electricity Generating Bd. propose erection of power stations at Eggborough and Ferrybridge on River Aire. . . . CC propose major improvements at Bashall Eaves CoE (aided) sch.

WIGAN. — RDC propose erection of cleansing depot and garages rear of Miles-la., Shevington. . . . BC propose residential development of houses for sale at Tunstall-la., Pemberton. . . . Wigan Athletic Football Club propose erection of 5,000-seater stand at Springfield Park. . . . Howard Estates, Southport, propose erection of 44 bungalows off The Common, Parbold.

WILTSHIRE.—County Welfare Com. is to submit building programme for 1962-63 and 1963-64 to MoH for approval: 1962-63—Purpose-built welfare home, 50 beds. at Chippenham, est. £78,500; home for blind in mid-west of county, 35 beds, est. £68,000.

TENDERS

(A) Denotes *accepted*.
(PA) Denotes *provisionally accepted*.
(RA) Denotes *recommended for acceptance*.
(AM) Denotes *accepted subject to modification*.
(GD) Denotes *accepted subject to approval by appropriate Government Department*.

ALDERLEY EDGE (Ches.).—Office accommodation for the ICI pharmaceuticals division. (A) Middlesex Prefabricated Buildings Ltd.

BOOTLE.—Erection of 34 maisonettes, six shops and 28 garages at Park-la., Netherton, for BC. (A) Sir Robt. Lloyd & Co. Ltd., Bromborough.

CARLISLE.—Following for City C: Erection of 40 dwellings at Norton estate. (A) Direct labour, £42,671. Preparation of roads and sewers at Wigton-rd. housing site. (A) Eden Construction Co. Ltd., Carlisle, £32,918.

CHESTER.—Erection of houses and shops, etc., for the Newtown redevelopment scheme for City C.. (A) F. Shepherd & Son Ltd., £750,000.

CHESTER.—Construction of water retaining tanks at sewage disposal works for CC. (PA) Holst & Co. Ltd., £154,891. Erection of 44 houses at Blacon for CC. (PA) T. Warrington & Sons Ltd., £94,475.

CHESTERFIELD.—Adult training centre for mentally subnormal people at Ashgate for Derbys. CC. (A) G. F. Kirk Ltd., £57,316.

CLACTON-ON-SEA (Essex).—North East Metropolitan Regional Hospital Bd. propose a new boiler house and plant at Heath Hospital. Est. cost is £70,580.

CRAWLEY.—New laboratory block at Hazelwick North sec. mod. sch., Crawley, for CC. Architects: Woodroffe, Buchanan & Coulter. QS: J. McBain & Ptnrs. (A) Y. J. Lovell (Sussex) Ltd., £27,742.

EASTBOURNE.—New special sch. at Lindfield-rd., Hampden Park, for CBC. Architect: R. Williams (Boro' E.). QS: Martin & Martin. (A) Y. J. Lovell (Sussex) Ltd., £54,706.

HOPPERTON (West Riding).—Construction of a bridge and diversionary road, etc., for CC. (A) Dowsett Engineering Co. Ltd., £270,000.

JARROW (Co. Durham).—Erection of 27 flats and maisonettes and four houses at High-st., 16 houses nr. Spenser-st., and four shops and maisonettes at Hedworth estate for the TC. (A) Direct labour.

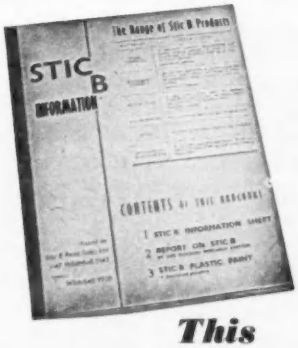
LONDON CC.—Recent contracts placed: Construction of Block 1 and other work at Walmer-rd. site, Kensington. (A) Thomas McInerney & Sons Ltd., Watford, Herts., £91,789. Supply and installation of gas water heaters in 921 dwellings at St. Helier estate, Carshalton. (A) F. J. Baynes & Co. Ltd., Islington, £41,167. Erection of a new science block and alterations in existing school building at Shooter's Hill sch., Woolwich. (A) Henry Kent (Builders) Ltd., Lewisham, £50,875. Improvements at North Paddington county sec. sch., Paddington. (A) William Walkerdine Ltd., Kensington, £41,179. Supply and installation of gas water heaters in 491 dwellings at Downham estate, Kent. (A) South Eastern Gas Bd., Camberwell, £25,614. Laying out a playing field at Hunts Slip-rd., Dulwich. Kinman (Contractors) Ltd., Hammersmith, £30,961.

(GD) LONDON (Air Ministry).—Contracts to the value of £4,000 or over for week ended July 28: *Building work:* Scampton, Lincs.; Wm. Wright & Son (Lincoln) Ltd., Park-st., Lincoln, Lincs. Buchan, Aberdeenshire; Mr. James Cran, Queen's-st., Peterhead, Aberdeenshire. *Artificers' work:* Sculthorpe, Norfolk, etc.; Walter Lawrence & Son Ltd., London-street, Swaffham, Suffolk. Gaydon, Warwickshire; Bosworth, Wakeford & Stepnell Ltd., Lawford-rd., Rugby, Warwickshire. St. Mary's, Scilly Isles; A. N. Coles (Contractors) Ltd., Plymouth, Devon. *Heating and ventilation services (supply and installation):* Middleton St. George, Co. Durham; Norris Warming Co. Ltd., Westgate-rd., Newcastle-on-Tyne. *Preparation and maintenance of land:* Air Ministry, Directorate General of Works Headquarters, No. 10 Works Area (Group 1). Royal Air Force, Ickenham-rd., Ruislip, Middx. Included in this Group are: Wethersfield, Stansted Airport and Debden (Essex), etc.; E. Doe & Sons (Contractors) Ltd., Fyfield, Ongar, Essex. Headquarters No. 10 Works Area (Group 4). Included in this Group are: Farnborough and Thorney Island (Hants.) and Tangmere, Sussex, etc.; G. O. & W. L. Watts (Grazeley) Contractors Ltd., Calcot, Reading, Berks.

(GD) LONDON (MoW).—Contracts placed for week ended July 15: *Devon:* Alterations to accounts section at Head Post Office, Fleet-st., Torquay; Thos. Vanstone & Sons Ltd., 240 Union-st., Torquay. *Hampshire:* Enlargement of helio section at Ordnance Survey Office, Crabwood, Southampton; G. S. Hallum & Sons Ltd., 9 Carlton-cres., Southampton. *Hertfordshire:* Voltage plant at Building Research Station, Garston; Lancashire Dynamo & Electronic Products Ltd., Rugeley, Staffordshire. Erection of telephone exchange at Chorley Wood; Welwyn Builders Ltd., Mundells, Welwyn Garden City. *London:* Internal cleaning and decoration work at Natural History Museum, SW7; South London Decorators Ltd., 9-11 Streatham High-rd., SW16. Cladding to escalators at new centre block, Science Museum, SW7; Y. J. Lovell (London) Ltd., Thorne-hse., Endsleigh-gdns., WC1. Electrical installations at Northumberland-hse., SW; Read and Ptnrs. Ltd., 28-32 Hatfields, Stamford-st., SE1. Electrical installations at Government Offices, Gt. George-st., SW1; L. J. Palmer of London Ltd., Baring Works, Grove Park, SE12. Alterations and adaptations to St. Stephen's Club Building, Bridge-st., SW1; C. R. Price, bldg. and engrg. contr., 252 Bishopsgate, EC2. Acoustic treatment of conference rooms at 3/8 Whitehall-pl., SW1; Bracketing, Centering and Lathing Ltd., Central-ave., West Molesey, Surrey. *Middlesex:* Oil-fired boiler at Ship Hydrodynamics Laboratory, Feltham; Vauxhall Boiler Co. Ltd., Bondway, London, SW8. Surface treatment to walkways, corridors at Ship Hydrodynamics Laboratory, Feltham; Fields (Richmond) Ltd., 12 Kew-rd., Richmond, Surrey. Erection of Crown Office building at Ruislip; Token Construction Co. Ltd., 68 Mount-st., London, W1. *Nottinghamshire:* Erection of telephone exchange at Radcliffe-on-Trent; R. Hustwaye, Haydn-rd., Sherwood. *Wiltshire:* Provision of air conditioning at Copenacre, Hawthorn; W. G. Cannon & Sons Ltd., 38A St. George's-dr., Buckingham Palace-rd., London, SW1. *Worcestershire:* Erection of automatic telephone exchange, Albert-rd., Malvern; Thos. Broad Ltd., Graham-wks., Gt. Malvern.

MANCHESTER.—Showrooms and offices at Granby-row for Factory & Commercial Holdings Ltd. (A) B. Sunley & Sons Ltd., London.

MIDDLESBROUGH. — Erection of 33 dwellings and 11 garages at Easterside for



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CBC. Boro' E&S is J. A. Kenyon. (A) Emco Builders Ltd., 7 Kings-rd., Middlesbrough, £57,500.

NEWCASTLE.—Erection of a 180 ft. office block at St. Andrew's-st., overlooking St. James's Park football ground, for Wellbar Developments Ltd. Architects: W. H. Williamson & Ptnrs., Newcastle. (A) Holland & Hannen and Cubitts (Scotland) Ltd., £300,000.

NEWCASTLE-ON-TYNE. — Erection of further 85 permanent brick garages on various housing estates for City C. (A) G. M. Pearson & Son Ltd., Front-st., Hetton, Co. Durham.

NOTTINGHAM.—Factory extensions at North-st., Langley Mill, for Aristoc Ltd. (A) F. Sisson & Son Ltd.

ROTHERHAM.—New consultants' offices for Park Gate Iron & Steel Co. Ltd. (A) Middlesex Prefabricated Buildings Ltd.

SHEFFIELD.—Departmental store and multi-storey car park at Cambridge-st. for John Lewis & Co. Ltd. (A) Trollope & Colls Ltd., London.

SOUTHPORT.—Technical College extensions for BC. (A) R. Marshall & Sons Ltd.

STALYBRIDGE.—Erection of 80 dwellings at Ridge Hill estate for BC. (A) Direct labour, £129,417.

SUNDERLAND.—Extensions to oil storage installation on the Corporation Quay for Petrofina (Great Britain) Ltd. (A) William Press & Sons, Valley-st. north, Darlington, £234,000.

ULVERSTON (Lancs.).—Erection of 18 houses, 11 garages, etc., at Croftlands estate for UDC. (A) Baker & Foster (1960) Ltd., £35,087.

WALLASEY.—Erection of 62 maisonettes, police sub-station and seven garages at Mersey-st. area for BC. (A) G. Wimpey & Co. Ltd., £169,761.

WALSALL.—Six nine-storey blocks of flats, eleven three-storey blocks of flats and 27 garages and ten shops, with maisonettes over, at Sneyd-la. site for BC. (A) Wates Ltd., London.

WEST HARTLEPOOL. — Erection of church in Catcote-rd. for Church of Jesus Christ of Latter Day Saints. Architects: G. T. Brown & Son, 14 Grange-ter., Stockton-rd., Sunderland. (A) Direct labour by Church Building Dept., 6 Tottenham-cres., Epsom Downs, £100,000.

WESTMINSTER.—New offices at New Cavendish-st., W1, for the Prudential Assurance Co. Designed by the company's own architectural dept. (A) Sir Robert McAlpine & Sons, £220,000.

WIGAN.—Erection of 166 dwellings at Giants Hall, Gidlow, for BC. (A) Direct labour, £242,760. New warehouse at Kitt Green for H. J. Heinz Co. Ltd. (A) A. Monk & Co. Ltd., £475,000 (approx.).

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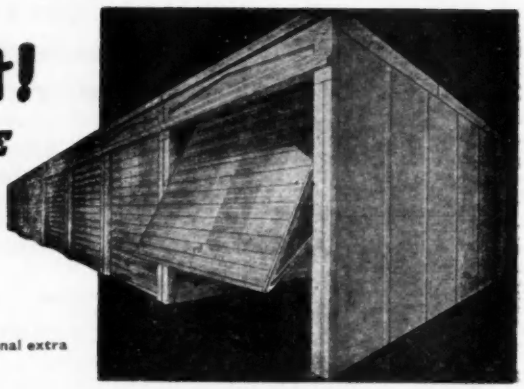

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ATTENTION ADVERTISERS

Advertisements in this section must be received by **9 a.m. TUESDAY** to appear in the following **Friday's issue.** It is regretted that advertisements cannot be taken over the TELEPHONE.

CONTRACTS

IPSWICH
COUNTY BOROUGH.

HOUSING COMMITTEE.
ERECTION OF 250 GARAGES ON VARIOUS ESTATES.

Ipswich Corporation invites Fixed Price TENDERS for SITE WORKS, BASES, etc., in connection with the ERECTION OF GARAGES in the following contracts :—

39 Garages, Gainsborough Estate.
55 Garages, Whitton White House Estate (two sites).
40 Garages, Maidenhall Estate.
52 Garages, Rushmere Estate (two sites).
64 Garages, Chantry Estate (two sites).

The Prefabricated Garages will be supplied and erected by Sub-Contractors.

Contractors wishing to Tender for any or all the contracts should send their names, together with a deposit cheque for two guineas (refundable on receipt of bona fide Tender) to the Borough Engineer and Surveyor, 19 Tower-street, Ipswich, not later than FRIDAY, 18th AUGUST, 1961. Bills of Quantities will be forwarded on Tuesday, 5th September, 1961 and the closing date for receiving Tenders will be 12 NOON on TUESDAY, 26th SEPTEMBER, 1961.

The Council does not bind itself to accept the lowest or any Tender.

J. C. NELSON,
Town Clerk.

Town Hall,
Ipswich.

GOSPORT
BOROUGH.

PROPOSED ERECTION OF SINGLE-STOREY SHOP WITH LIVING ACCOMMODATION. APPROXIMATELY 2,200 SUPER FEET, WITH APPURTENANT WORKS, in Trinity Green, Gosport.

TENDERS are invited for the ABOVE WORKS.

Forms of Tender, General Conditions of Contract, Bills of Quantities, may be obtained on application to the Borough Engineer, The Hall, Trinity Green, Gosport. A deposit of Two Guineas will be required, this being refunded on receipt of a bona fide Tender and/or the return of all documents.

Tenders, and Priced Bills of Quantities are to be submitted in the separate envelopes provided, and should be received by me not later than FIRST POST on MONDAY, the 11th SEPTEMBER, 1961.

The Corporation do not bind themselves to accept the lowest or any Tender.

EDWARD ADDENBROOKE,
Town Clerk.

Town Hall,
Gosport.
24th July, 1961.

BIRMINGHAM CITY
HOUSING MANAGEMENT DEPARTMENT.

SILICONE WATERPROOFING SOLUTIONS.

The Housing Management Committee is giving consideration to the establishment of an approved list of branded silicone waterproofing solutions for brickwork etc.

Manufacturers who desire a specific brand to be considered for inclusion in the approved list should apply to the undersigned for a statement of the conditions applicable.

Acceptance on the approved list will be essential before tenders from either manufacturers or other suppliers can be considered.

J. P. MACEY,
Housing Manager.

Bush House,
Broad-street,
Birmingham, 1.

CARDIFF CITY.

CITY ARCHITECT'S DEPARTMENT.
SLOPER-ROAD TRANSPORT DEPOT. ALTERATIONS TO ELEVATION AND ROOF.

Fixed Price TENDERS are invited for the CARRYING OUT OF ALTERATIONS TO THE CLADDING OF THE FRONT ELEVATION AND RENOVATION OF THE ROOF OF THE TRANSPORT DEPOT at Sloper-road, Cardiff.

Conditions of Tender, Specification, Bills of Quantities and Drawings may be inspected at the City Architect's Department, Municipal Offices, Greyfriars-road, Cardiff.

Specification, Bills of Quantities and Form of Tender may be obtained from the City Architect to whom application should be made, accompanied by a deposit of £2 2s. 0d. Cheques should be made payable to the Cardiff Corporation and crossed "Not negotiable and Co." The deposit will be refunded on receipt of a bona fide Tender or the return of the contract documents.

Tenders will not be considered unless enclosed in a plain sealed envelope endorsed "Tender for Sloper-road Depot —Elevation and Roof" addressed to the Town Clerk at the City Hall, Cardiff, and sent by Registered Post or Recorded Delivery, so as to be received not later than the 25th AUGUST, 1961.

The envelope must not bear the name of or any mark indicating the identity of the Tenderer.

The Council does not bind itself to accept the lowest or any Tender.

S. TAPPER-JONES,
Town Clerk.

City Hall,
Cardiff.
July, 1961.

CAMBRIDGE CITY.

EAST-ROAD REDEVELOPMENT AREA.
ERECTION OF 12 MAISONETTES, 6 SHOPS, 4 TERRACE HOUSES AND 26 OLD PEOPLE'S HOMES.

TENDERS are invited for the ERECTION OF 12 MAISONETTES IN ONE BLOCK, 6 SHOPS WITH MAISONETTES OVER IN ONE BLOCK, 4 TERRACE HOUSES IN ONE BLOCK, AND 26 OLD PEOPLE'S HOMES IN LINKED BLOCKS, for the second stage of the above redevelopment. Applications, accompanied by a deposit of £2 2s., to be made to the City Engineer by 14th AUGUST, 1961. Completed Tenders will be required during the latter part of September.

The Council does not bind itself to accept the lowest or any Tender.

ALAN H. I. SWIFT,
Town Clerk.

The Guildhall,
Cambridge.

WAKEFIELD CITY
AND COUNTY BOROUGH.

12 FLATS AT KETTLETHORPE.
12 FLATS AT DENHALE-AVENUE.
24 FLATS AT ALVERTHORPE-ROAD WITH ROAD AND SEWER.
28 FLATS AT GLOUCESTER-ROAD WITH ROAD AND SEWER.
12 FLATS AND ONE PAIR OF SEMI-DETACHED HOUSES AT QUEEN ELIZABETH-ROAD, WITH ROAD AND SEWER.

Contractors wishing to TENDER for the above project, which will be let to a single contractor, are invited to submit their names to the City Engineer, Town Hall, Wakefield, not later than 14th AUGUST, 1961.

The flats are two-storey one-bedroomed flats, in blocks of four.

Contractors should state in their application for Bills of Quantities whether, and if so to whom, they propose to sub-let any portion of the works.

Tenders must be returned to me not later than 10 a.m. on MONDAY, 11th SEPTEMBER, 1961.

W. S. DES FORGES,
Town Clerk.

18th July, 1961.

WANDSWORTH
BOROUGH COUNCIL.

CONVERSION WORKS, CLAPHAM.

Contractors wishing to TENDER for CONVERSION OF LARGE RESIDENTIAL PROPERTY INTO FLATS should submit names to me by 17th AUGUST, 1961, giving details of experience, plant and technical and supervisory staff available together with names of two technical and two financial referees. Bills of quantities will be issued to selected contractors in due course.

Drawings may be examined at the Borough Engineer and Architect's Department at this address.

J. NOEL MARTIN,
Town Clerk.

Municipal Buildings,
Wandsworth, S.W.18.

MIDDLETON
BOROUGH.

THREE SHOPS,
ONE TWO-BEDROOM HOUSE AND ONE TWO-BEDROOM FLAT,
PINE-STREET.

FIXED-PRICE TENDERS are invited for the above Contract.

Applications for details, Tender Forms and Bills of Quantities to The Borough Surveyor, Town Hall, Middleton, enclosing deposit of £2 2s., returnable on receipt of bona fide Tender.

Tenders to be returned in endorsed envelope by first post FRIDAY, 1st SEPTEMBER, 1961, to the undersigned.

F. JOHNSTON,
Town Clerk.

Town Hall,
Middleton,
Nr. Manchester.
26th July, 1961.

SURBITON
BOROUGH.

MIDDLETON ESTATE,
PHASE 4—SURBITON.
ERECTION OF 32 HOUSES.

Contractors are invited to submit their names for permission to TENDER for the above-mentioned building work.

The contract comprises the construction of 32 traditional-type houses in pairs and terraces.

The Architect is Clifford Culpin, Esq., O.B.E., F.R.I.B.A., M.T.P.I., and the Quantity Surveyors, Messrs. Dearle and Henderson.

The Contractors should indicate in their applications details of recent similar work they have executed and names and particulars should be received by the undersigned not later than noon on 18th AUGUST, 1961.

Bills of Quantities will be posted out on 4th SEPTEMBER and tenders will be due in on FRIDAY, 6th OCTOBER, 1961.

JOHN H. A. CRUNDELL,
Town Clerk

Council Offices,
Surbiton.

GLAMORGAN
COUNTY COUNCIL.

REVISION OF THE LIST OF BUILDING CONTRACTORS.

Applications are invited from Contractors (not already on the List) wishing to be PLACED ON THE COUNTY COUNCIL'S LIST of approved Contractors who will be invited to tender from time to time for County Building Projects.

Four Lists will be maintained, namely (a) List "A" for works estimated to cost more than £50,000, (b) List "B" for works estimated to cost between £15,000 and £50,000, (c) List "C" for works estimated to cost between £1,500 and £15,000, and (d) List "D" for works estimated to cost less than £1,500.

Applications should be made to Richard John, Esq., Clerk of the Glamorgan County Council, County Hall, Cardiff, to arrive not later than THURSDAY, the 31st day of AUGUST, 1961. Applicants should specify whether they wish to be entered on one or more of the said lists.

The Council reserve the right to make a selection from the applications received, to accept or reject applications in whole or in part, and to make such additions to or deletions from the lists as may be considered desirable during the stated period.

RICHARD JOHN,
Clerk of the County Council.

Glamorgan County Hall,
Cardiff.

ISLE OF ELY
COUNTY COUNCIL.

FIRE SERVICE COMMITTEE.
PROPOSED WORKSHOP UNIT AND DRILL TOWER,
COUNTY FIRE HEADQUARTERS, WISBECH.

Building Contractors are invited to submit FIRM PRICE TENDERS for the above work which comprises :—

(1) STEEL FRAMED WORKSHOP BUILDING of approx. 3,200 sq. ft., the building being part two storey and part single storey.

(2) A DRILL TOWER approx. 65 ft. high in reinforced brickwork.

(3) SMALL ANCILLARY BUILDINGS, and

(4) ALTERATIONS TO THE EXISTING APPLIANCE ROOM.

The Bills of Quantities will be available on 21st August and Tenders are to be submitted by 25th SEPTEMBER, 1961.

Contractors requiring documents are to apply in writing to the County Architect, County Hall, March, Cambs., not later than 12th AUGUST. All applications must be accompanied by a cheque for £2 2s. payable to the Isle of Ely County Council. This deposit will be refunded upon receipt of a bona fide Tender.

R. F. G. THURLOW,
Clerk of the County Council.

County Hall,
March.

POOLE
BOROUGH.

BRANKSOME DENE CHINE,
BEACH HUTS, STAGE I.

TENDERS are invited for the ERECTION OF FIFTY PERMANENT BEACH HUTS in traditional brick construction.

Details from the Borough Architect on 2nd August, 1961. Deposit 2 guineas.

Tenders to be returned to the undersigned by first registered post on 23rd AUGUST, 1961.

J. G. HILLIER,
Town Clerk.

Municipal Buildings,
Poole.

BOURNEMOUTH
COUNTY BOROUGH.

TO BUILDING CONTRACTORS.

TENDERS are invited on a fixed price basis for the PROVISION OF NEW CLOAK AND SANITARY ACCOMMODATION at Malmesbury Park C.P. School, Malmesbury Park-road and Pokesdown C.P. School, Livingstone-road, Bournemouth.

Drawings, Specifications and Forms of Tender are obtainable from the Borough Architect's Office, Room 106, Town Hall, Bournemouth, on payment of one guinea deposit for each contract. Deposit to be refundable on receipt of a bona fide tender not subsequently withdrawn and the return of all documents supplied.

Tenders to be received by me not later than 10 a.m., 8th SEPTEMBER, 1961.

A. LINDSAY CLEGG,
Town Clerk.

KENT.

BROMLEY BOROUGH.
NORMAN PARK PAVILION.

TENDERS are invited for the CONSTRUCTION OF A SPORTS PAVILION at Norman Park, Bromley, comprising three changing rooms, referees' rooms, showers and toilets, etc.

Drawings and Conditions of Contract may be inspected at the office of the Borough Engineer, Municipal Buildings, Bromley.

Contractors wishing to tender should apply to the Borough Engineer for Bills of Quantities and Form of Tender not later than the 14th AUGUST, 1961.

The Council does not bind itself to accept the lowest or any tender.

LIONEL KAYE,
Town Clerk.

Municipal Buildings,
Bromley,
Kent.
26th July, 1961.

LETCHWORTH
URBAN DISTRICT COUNCIL.

SWIMMING POOL.
ADDITIONAL CHANGING ROOMS.

FIRM-PRICE TENDERS are invited for lump sum Contract at the Swimming Pool in Icknield-way.

Builders wishing to tender should apply for Specification and Drawing, to Engineer and Surveyor, Town Hall, Letchworth, enclosing £2 2s. deposit, returnable on receipt of bona fide tender or untouched tender documents, tenders to be sealed and submitted to the undersigned in the envelope supplied, endorsed, "Tender for Swimming Pool Changing Rooms," not later than 12 noon, FRIDAY, 25th AUGUST, 1961.

H. PLINSTON,
Clerk of the Council.

SWANSEA
COUNTY BOROUGH.

BOROUGH ARCHITECT'S DEPARTMENT.
HEATING :
HOT AND COLD WATER SERVICES AT MORFYDD HOUSE (DAY) SPECIAL SCHOOL,
MORRISTON, SWANSEA.

Firms wishing to TENDER for the HEATING—HOT AND COLD WATER SERVICES at the above SCHOOL are invited to submit their applications to the Borough Architect, The Guildhall, Swansea, on or before FRIDAY, 11th AUGUST, 1961.

Plans, Specification, Conditions of Contract can be obtained on application and deposit of Two Pounds. The documents will be sent only to those applicants who have had the necessary experience to carry out work of this nature and the applicants are advised that they should give evidence of having previously carried out work of a similar character.

The deposit will be refunded after delivery of a bona fide Tender (not subsequently withdrawn) and the return of all documents.

No guarantee is given that the lowest or any other Tender will be accepted.

IORWERTH J. WATKINS,
Town Clerk.

The Guildhall,
Swansea.
July, 1961.

ESSEX
COUNTY COUNCIL.

COLCHESTER MYLAND COUNTY PRIMARY SCHOOL.

Contractors wishing to submit a TENDER for the above should forward their names, from which a panel will be chosen and provided with Tender documents.

The work consists of CONVERSIONS, ETC., TO PROVIDE INDOOR SANITATION AND STAFF ROOMS, estimated cost £2,980. The private architect for this contract is Messrs. Baker & Burton, 3 Church Street, Colchester, Essex.

Applications to reach the undersigned not later than 12th AUGUST, 1961.

H. CONOLLY,
C.B.E., F.R.I.B.A.,
County Architect.

County Hall,
Chelmsford.

GREENWICH
METROPOLITAN BOROUGH.

Applications are invited from those willing to TENDER FOR THE ERECTION OF 70 HOUSES, 42 MEWS FLATS OVER GARAGES AND COVERED ROADWAY AND 64 FLATS IN AN 8-STOREY BLOCK at Vanbrugh Park, Blackheath, S.E.3.

Plans may be inspected and other particulars obtained at the office of Messrs. Chamberlin, Powell & Bon, Architects, 1 Lamont-road Passage, Kings-road, London, S.W.10.

Selected applicants (not exceeding 10) will be notified by post and will be supplied with Bills of Quantities and other documents required to enable them to tender.

Tenderers will be required to sign, or to refuse to sign, a certificate declaring that they are not parties to any scheme or arrangments with other tenderers in respect of the amount of or the adjustment of their Tender. The full wording of the certificate may be obtained from the undersigned.

Applications, addressed to the undersigned, receivable by first post, FRIDAY, 1st SEPTEMBER, 1961, must include particulars of recent works executed by applicants.

G. C. TURK,
Town Clerk.

Town Hall,
Greenwich, S.E.10.
July, 1961.

CARDIFF CITY.

CITY ARCHITECT'S DEPARTMENT.
AGED PERSONS' HOME,
Newborough-avenue, Llanishen.
PROPOSED PASSENGER LIFT.

Fixed Price TENDERS are invited for the SUPPLY, DELIVERY AND INSTALLATION OF AN ELECTRICALLY OPERATED PASSENGER LIFT AT THE AGED PERSONS' HOME, Llanishen, now under construction.

Conditions of Contract, Drawings and Specification may be inspected at the City Architect's Department, Municipal Offices, Greyfriars-road, Cardiff.

Specification, Drawings and Form of Tender may be obtained from the City Architect to whom application should be made, accompanied by a deposit of £2 2s. 0d. Cheques should be made payable to the Cardiff Corporation and crossed "Not negotiable and Co." The deposit will be refunded on receipt of a bona fide Tender or the return of the contract documents.

Tenders will not be considered unless enclosed in a plain sealed envelope endorsed "Tender for Aged Persons' Home, Llanishen, Passenger Lift," addressed to the Town Clerk at the City Hall, Cardiff and sent by Registered Post or Recorded Delivery so as to be received not later than the 29th AUGUST, 1961.

The envelope must not bear the name of or any mark indicating the identity of the Tenderer.

The Council does not bind itself to accept the lowest or any Tender.

S. TAPPER-JONES,
Town Clerk.

City Hall,
Cardiff.
July, 1961.

BECKENHAM
BOROUGH.

TENDERS are invited for the ERECTION AND COMPLETION OF FOUR BRICK-BUILT DRESSING ROOMS AS AN ADDITION TO THE PRESENT PAVILION at "Harvington," South Eden Park-road.

Bills of Quantities and Form of Tender may be obtained and the Drawings and General Conditions of Contract inspected on application to Mr. James Dove, A.M.Inst.C.E., Borough Engineer, Town Hall, Beckenham, on payment of a deposit of £2 which will be refunded on receipt of a bona fide Tender which is not subsequently withdrawn.

Sealed Tenders, in the plain official envelope provided, endorsed "Tender for Dressing Rooms, Harvington," must reach me not later than 5 p.m. on FRIDAY, 15th SEPTEMBER, 1961.

The Council does not bind itself to accept the lowest or any Tender.

R. WEBSTER STORR,
Town Clerk.

Town Hall,
Beckenham,
Kent.
25th July, 1961.

EALING
BOROUGH.

DEMOLITION WORKS.

TENDERS invited for DEMOLITION OF TEMPORARY BUILDING at rear of Town Hall and 191 Boston-road, Hanwell. Full details and Tender form from Borough Engineer, Town Hall, Ealing, W.5. Closing date 8th AUGUST, 1961.

E. J. COPE BROWN,
Town Clerk.

TAUNTON
BOROUGH.

TAUNTON LIVESTOCK MARKET—REORGANISATION OF CATTLE SECTION

Contractors are invited to submit their names for consideration for general building works comprising demolition of pens and buildings, drainage works, walls and concrete flooring and ancillary building work in connection with the RE-ORGANISATION OF THE CATTLE SECTION at the Livestock Market, Priory Bridge-road, Taunton. This will be carried out in stages over approximately a year, probably commencing in NOVEMBER, 1961. The supply and erection of pens and precast concrete frames and roofings to sale rings, the provision of pen covers, water supplies, guillotines, lighting, amplifying equipment and salering standings will be undertaken by nominated sub-contractors and provision for these will be included as provisional items in the general works contract.

Contractors should apply to the Borough Engineer, St. Paul's House, Taunton, not later than 9th AUGUST, 1961, enclosing a deposit of two guineas which will be refunded on receipt of a bona fide tender not subsequently withdrawn, or in the event of the contractor not being selected. It is anticipated that Bills of Quantities will be sent out on 19th AUGUST for tenders to be submitted by 11th SEPTEMBER, 1961.

K. A. HORNE,
Town Clerk.

Municipal Buildings,
Taunton.

BROWNHILLS
URBAN DISTRICT.

ENGINEER AND SURVEYOR'S DEPARTMENT.
ERECTION OF 17 DWELLINGS, FIELD-LANE, HIGH HEATH, AND
3 DWELLINGS, SHIRE OAK, BROWNHILLS.

TENDERS are invited for the ERECTION OF 17 DWELLINGS at Field-lane, High Heath, Pelsall, and 3 DWELLINGS at Chester-road, Shire Oak, Brownhills.

Bills of Quantities, Plans and Forms of Tender may be obtained from Mr. Charles H. Hunt, Engineer and Surveyor, Coombe House, Brownhills, on receipt of a returnable deposit of £2 2s.

Tenders should be returned to the Engineer and Surveyor in a plain sealed envelope endorsed "Tender for Dwellings, Field-lane and Shire Oak" not later than MONDAY, 4th SEPTEMBER, 1961.

The Council's Direct Labour Department will also be submitting tenders for these schemes.

NORMAN WAINE,
Clerk of the Council.

Council Offices,
Brownhills.
26th July, 1961.

DARLINGTON
COUNTY BOROUGH.

PROPOSED BRANKSOME SECONDARY SCHOOL (600 PLACES).

TENDERS are invited for the ERECTION of the above Four-Form Entry School comprising a four-storeyed steel-framed building constructed in the Thermoguard System.

Full particulars may be obtained from the Borough Architect, Central Buildings, Darlington, upon payment of a deposit of £2 2s., which will be refunded on receipt of a bona fide tender. Bills of Quantities will be available on 9th AUGUST, 1961. Tenders on the official Form of Tender and enclosed in the envelope provided to be returned to me not later than 12 noon, 12th SEPTEMBER, 1961.

C. N. S. NICHOLSON,
Town Clerk.

11 Houndgate,
Darlington.

THE WEST RIDING OF YORKSHIRE
COUNTY COUNCIL.

TENDERS are invited for FORMATION OF NEW DRILL YARD at Cleckheaton Fire Station.

Specifications are available for inspection at the office of the Divisional Architect, Flint-street, Huddersfield, to whom applications to Tender must be addressed.

Sealed Tenders must be addressed to me, the undersigned, and received at Room 4, County Hall, Wakefield, not later than 12 noon on MONDAY, 28th AUGUST, 1961.

BERNARD KENYON,
Clerk of the County Council.

GUILDFORD
RURAL DISTRICT COUNCIL.

GARAGES.

FIXED PRICE TENDERS are invited for the ERECTION OF 142 GARAGES AND ANCILLARY WORKS on various sites in the district.

The documents have been divided into two area groups:—

(a) East—78 Garages;
(b) West—64 Garages.

Tender forms, plans and specifications only will be provided on application to the undersigned together with a deposit of £2 2s. per group made payable to the Guildford Rural District Council, to be refunded on receipt of a bona fide Tender in respect of each group.

Tenders in the envelopes provided must be delivered to E. W. Sellings, Esq., Clerk of the Council, not later than NOON on THURSDAY, 7th SEPTEMBER, 1961.

Tenders may be submitted for one or both groups and the Council reserve the right to award the contracts separately or conjointly and do not bind themselves to accept the lowest or any Tender.

J. W. SNAPE,
M.I.Mun.E., M.R.S.H., M.I.H.E.,
Engineer and Surveyor

Millmead House,
Guildford,
Surrey.

DURHAM CITY.

GRAPE-LANE, CROSSGATE.
ERECTION OF 26 ONE-BEDROOM DWELLINGS.

The Council invites applications for TENDER DOCUMENTS relating to the CONSTRUCTION OF THE ABOVE SITE OF 26 ONE-BEDROOM DWELLINGS (8 single-storey, 9 double-storey units). The architects for the development are Messrs. Tarren and Caller, Chartered Architects, Sedgefield and Newcastle.

Bills of Quantities will be available shortly and the closing date for the receipt of completed tenders, which should be enclosed in plain sealed envelopes bearing the words "Tender for 26 Dwellings" but not bearing any name or mark indicating the sender, will be in early SEPTEMBER. The exact date will be indicated on the Form of Tender.

Applications for tender documents should be made to the City Engineer, Town Hall, Durham, and should be accompanied by a deposit of £2 2s., which will be returned on receipt of a bona fide tender, not subsequently withdrawn, and the return of all documents.

The Council's standing orders provide that no tenders will be received except those sent in complying with the above direction.

The Council does not bind itself to accept the lowest or any tender.

D. B. MARTIN-JONES,
Town Clerk.

32 Claypath,
Durham.
24th July, 1961.

IPSWICH
COUNTY BOROUGH.

HOUSING COMMITTEE.
CHANTRY ESTATE.

Ipswich Corporation invites TENDERS for the ERECTION OF HOUSES AND FLATS in three contracts, viz.:

30 HOUSES OF VARIOUS TYPES.
72 HOUSES OF VARIOUS TYPES.
24 FLATS IN 4 BLOCKS OF 6 FLATS.

Deposit cheque £3 3s. for each separate Contract will be required (refundable on receipt of bona fide tender). Contractors wishing to tender should send their names to the Borough Engineer and Surveyor, 19 Tower-street, Ipswich, not later than 17th AUGUST, 1961, with cheque.

Bills of Quantities will be forwarded on 24th AUGUST, 1961, and closing date for receipt of tenders will be 12 noon on THURSDAY, 21st SEPTEMBER, 1961.

A Guarantee Bond will be required.

The Council does not bind itself to accept the lowest or any tender.

J. C. NELSON,
Town Clerk.

Town Hall,
Ipswich.

PORT TALBOT
BOROUGH.

The Corporation invite TENDERS for the ERECTION OF THREE REINFORCED CONCRETE STRUCTURES, EACH CONSISTING OF TWO BEACH KIOSKS AND SHELTER at the Aberavon Promenade, Port Talbot.

Plans and Specification may be obtained from G. V. Griffiths, A.M.I.C.E., Borough Engineer, Municipal Buildings, Port Talbot, on payment of a deposit of £2 2s. which will be returned on receipt of a bona fide Tender not subsequently withdrawn.

The Contractor, whose Tender is accepted, will be required to enter into a Bond of Security with a Bank, Insurance Company or other form of surety approved by the Corporation.

Tenders, sealed and endorsed "Kiosks/Shelters," to be delivered to the undersigned not later than 12 NOON, 17th SEPTEMBER, 1961.

The Corporation do not bind themselves to accept the lowest or any Tender.

W. KING DAVIES,
Town Clerk.

Municipal Buildings,
Port Talbot.
27th July, 1961.

NEWMARKET
URBAN DISTRICT COUNCIL.

TENDERS.
4 HOUSES AND 6 FLATS,
MILL-LANE, EXNING,
NEWMARKET.

TENDERS are invited for the ERECTION OF THE ABOVE to be built in traditional construction on a site at Exning, Newmarket.

The work to be carried out includes the WHOLE OF THE SITE PREPARATION, PAVINGS, DRAINAGE AND SERVICES.

Applications, accompanied by a deposit of £2 2s. which will be refunded on receipt of a bona fide Tender and/or the return of all documents, should be addressed to the Architect, P. D. Lees, L.R.I.B.A., at the Council Offices, Severals House, Newmarket (where drawings and Conditions of Contract may be inspected during normal office hours), and Tenders are to be delivered to the undersigned not later than FRIDAY, 8th SEPTEMBER, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

JOHN CRABB,
Clerk of the Council.

Severals House,
Newmarket.

HARROW
BOROUGH.

RENEWAL OF LEAD WATER SERVICES, ETC.

TENDERS are invited for CARRYING OUT THE RENEWAL OF EXISTING LEAD RISING MAINS AND COLD WATER SERVICES, INCLUDING STOP VALVES AND ALL ANCILLARY WORKS THERETO to dwellings on the Corporation's Elmgrove Estate.

Conditions of Contract may be inspected at the office of, and a copy of the Form of Tender and Specification obtained on application to, the Borough Engineer, Council Offices, "Cottesmore," 48 Uxbridge-road, Stanmore, Middlesex, upon payment of Two Pounds by crossed cheque, made payable to the Harrow Corporation, and returnable where a bona fide Tender reaches me within the prescribed time.

Tenders, on the prescribed form, must be enclosed in plain sealed envelopes, bearing no indication or mark of the sender and carrying the label provided, suitably endorsed, and delivered to my office, not later than 10 a.m. on TUESDAY, 5th SEPTEMBER, 1961.

The Corporation does not bind itself to accept the lowest, or any Tender.

DAVID PRITCHARD,
Town Clerk.

Town Clerk's Office,
92 Uxbridge-road,
Harrow,
Middlesex.

HEMEL HEMPSTEAD
BOROUGH.

CLEFT CHESTNUT FENCING—DEACONSFIELD-ROAD, LAWN-LANE, WOOD-CRESCENT, WOOD-LANE, ST. PAUL'S-ROAD AND ADEYFIELD-ROAD.

TENDERS are invited for the SUPPLY AND ERECTION OF APPROXIMATELY 1,940 YARDS RUN OF 3 FT. HIGH CLEFT CHESTNUT FENCING ON DRIVEN STAKES for Council Houses in Deaconsfield-road, Lawn-lane, Wood-crescent, Wood-lane, St. Paul's-road and Adeyfield-road.

The Specification and Form of Tender may be obtained from A. H. Turner, A.M.I.C.E., Borough Engineer, High-street, Hemel Hempstead, Herts., at whose office the General Conditions of Contract and plan may be inspected.

Tenders in plain sealed envelopes endorsed "Cleft Chestnut Fencing," bearing no name or indication of the sender, must be delivered to me not later than 12 noon on MONDAY, 21st AUGUST, 1961.

C. W. G. T. KIRK,
Town Clerk.

Town Hall,
High-street,
Hemel Hempstead,
Herts.

HASTINGS
CORPORATION

invite FIXED PRICE TENDERS for the ERECTION OF DWELLINGS on the following sites:

High Bank: 15 DWELLINGS IN ONE-AND TWO-STOREY CONSTRUCTION.
Gurth-road: 6 AGED PERSONS' BUNGALOWS.
Rectory Site: 4 AGED PERSONS' BUNGALOWS.
Belmont-road: 4 TWO-STOREY FLATS.

Applications for documents and Bills of Quantities to be sent to the Borough Surveyor, 37 Wellington-square, Hastings, with a deposit of £2 2s., made payable to Hastings Corporation. The deposit will be returned after a bona fide tender is received.

Tenders on the prescribed form, sealed in the envelope provided, and endorsed "Housing Tender—Small Sites," to be returned not later than 10 a.m., MONDAY, the 11th SEPTEMBER, 1961, and shall not bear the name or mark indicating the sender.

The Council do not undertake to accept the lowest or any tender.

N. P. LESTER,
Town Clerk.

Town Hall,
Hastings.

CUMBERNAULD DEVELOPMENT CORPORATION

CARBRAIN 3 AND 4 HOUSING DEVELOPMENT

Contractors wishing to TENDER for the ERECTION of 443 DWELLINGS comprising:—

192 two-storey terrace houses,
38 three-storey terrace houses,
41 flats over garages,
126 flats and maisonettes in 7 blocks each containing 4 flats and 14 maisonettes,
46 flats and maisonettes in 1 block containing 8 flats, 38 maisonettes and one shop store, together with 231 attached and detached garages, 1 shop, 2 sub-stations, tenants' rooms, pavings, drainage and certain site works,

are invited to submit their names to the Chief Architect and Planning Officer, Cumbernauld House, Cumbernauld, Glasgow, not later than 11th August 1961.

The Corporation reserve the right to select the Contractors to whom tender documents will be issued.

It is anticipated that the contract will be required to commence towards the end of this year and that the whole of the works will be required to be completed within twenty-one months following the agreed date of commencement.

A substantial bonus incentive/penalty arrangement will be incorporated in the contract.

Schedules of Quantities for this Several Works Contract will be immediately available.

NEWBURY
BOROUGH.

8 BLOCKS OF 4 FLATS
SCHEME 9.B.
TURNPIKE-ROAD HOUSING ESTATE.

TENDERS are invited for the CONSTRUCTION of the above.

Forms of Tender and Bills of Quantities may be obtained from the Borough Surveyor, Municipal Buildings, Newbury, at whose office plans and general conditions may be inspected.

Sealed Tenders endorsed "Tender for Scheme 9.B," must be delivered to the undersigned not later than MONDAY, 28th AUGUST, 1961. The Corporation does not bind itself to accept the lowest or any tender.

LESLIE SOUTHERN,
Town Clerk.

MORECAMBE AND HEYSHAM
BOROUGH.

PROPOSED EIGHT FLATS,
BRANKSOME DRIVE ESTATE.

TENDERS are invited for the ERECTION OF EIGHT ONE-BEDROOMED FLATS IN FOUR BLOCKS OF TWO.

Specifications, Bills of Quantities and Form of Tender may be obtained from and plans inspected at the office of the Borough Engineer and Surveyor, upon receipt of a deposit of £2, which will be returned upon receipt of a bona fide tender not subsequently withdrawn.

Tenders endorsed "Flats, Branksome-drive Estate" must reach me by 9 a.m., WEDNESDAY, 6th SEPTEMBER, 1961.

The lowest tender will not necessarily be accepted.

C. E. BOTTOMLEY,
Town Clerk.

28th July, 1961.

PLYMOUTH
CITY.

TENDERS are invited from Building Contractors for:

1. The ERECTION OF 33 FLATS at Granby-way, Devonport.
2. The ERECTION OF 23 FLATLETS, 6 FLATS AND A WARDEN'S FLAT at St. Mary-street, Stonehouse.
3. The CONVERSION OF THE GROUND FLOOR AND A PORTION OF THE FIRST FLOOR OF THE ENGINEERING BLOCK at the Plymouth Technical College.

Applications, accompanied by a deposit of Three Guineas for each scheme made payable to the Plymouth Corporation, to be made to the City Architect, Seymour-road, Plymouth, from whom Bills of Quantities and Forms of Tender may be obtained.

No application received after the 12th AUGUST, 1961, will be considered.

Deposits will be refunded on receipt of bona fide tenders not subsequently withdrawn.

PUBLIC APPOINTMENTS

CHESHIRE
COUNTY COUNCIL.

COUNTY SURVEYOR'S DEPARTMENT.

Applications are invited for the appointment of a CIVIL ENGINEER QUANTITY SURVEYOR, in connection with a 15-mile Motorway Contract between Holmes Chapel and Lymm. The salary will be in accordance with J.N.C. Scale "B," £1,485-£1,670.

Applicants must be fully conversant with the standard method of measurement of Civil Engineering Contracts, and the preparation of Interim and Final Certificates.

The appointment will be superannuable and will be for a minimum period of two years subject to satisfactory service. A car allowance is payable.

Consideration will be given to the payment of lodging allowance, return railway fare home, and assistance towards removal expenses.

Applications, giving full details of name, age, experience, qualifications, present appointment and salary, previous appointments, when available for duty, whether car owning, etc., together with the names of two referees, must reach the County Surveyor, Backford Hall, Nr. Chester, no later than WEDNESDAY, 9th AUGUST, 1961.

DUDLEY
COUNTY BOROUGH.

BOROUGH ARCHITECT'S DEPARTMENT.

Applications are invited from suitably qualified persons for appointment as ASSISTANT ARCHITECTS and QUANTITY SURVEYORS in the Borough Architect's Department in the following salary ranges.

A.P.T. Grade I, £645-£815.
A.P.T. Grade II, £815-£960.
A.P.T. Grade III, £960-£1,140.

And for SENIOR QUALIFIED ASSISTANTS in:

A.P.T. Grade IV, £1,140-£1,310;
A.P.T. Grade V, £1,310-£1,480.

Commencing salaries and grading will be determined by qualifications and experience, and applicants are required to pass a medical examination. Appointments are subject to the provisions of the Local Government Superannuation Act and N.J.C. Conditions of Service.

Housing accommodation is available.

Applications, stating age, qualifications, present and past appointments, experience, and the names and addresses of two referees, to reach me before midday on TUESDAY, 15th AUGUST, 1961.

P. D. WADSWORTH,
Town Clerk.

The Council House,
Dudley,
Worcs.

BELL & WEBSTER LTD (A MEMBER OF THE ELECO GROUP) HODDESDON · HERTS · HODDESDON 4421

RADNORSHIRE
COUNTY COUNCIL.

APPOINTMENT OF CHIEF ARCHITECTURAL ASSISTANT.

Applications are invited for the following permanent appointment on the established staff of the County Architect's Department:—

CHIEF ARCHITECTURAL ASSISTANT. Salary Grade A.P.T. IV (£1,140-£1,310 p.a.).

The Council have a varied and interesting building programme on hand including new schools, police houses and old people's homes.

The appointment will be subject to the National Scheme of Conditions of Service; to the Local Government Superannuation Acts and to termination by one month's notice in writing by either party.

A lodging allowance, proportion of approved removal expenses and rail fare home every three weeks for a limited period will be paid to a married man appointed to this post.

Applications, stating age, qualifications and experience, with the names and addresses of two persons to whom reference may be made, must be received by the undersigned not later than the 22nd AUGUST, 1961.

D. C. S. LANE,
Clerk of the Council.

County Hall,
Llandrindod Wells,
Radnorshire.

MANSFIELD
BOROUGH.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

Applications are invited for the following appointments in the Architectural Section of the Borough Engineer and Surveyor's Department:—

(a) ARCHITECTURAL ASSISTANT. Grades I-IV (£960-£1,310 per annum).
(b) GENERAL ARCHITECTURAL ASSISTANT. Grade II (£815-£916 per annum).
(c) JUNIOR ARCHITECTURAL ASSISTANT. Grade A.P.T. I (£645-£815 per annum).

Applicants for appointment (a) must be Corporate Members of the R.I.B.A. and for (b) must have passed the Intermediate Examination of the R.I.B.A. whilst for appointment (c) details of training and experience should be stated.

A house on service tenancy may be rented by the successful applicant for appointment (a).

Applications, stating age, marital state, training, past and present appointments with salary, and experience, together with the names of three referees should be sent to the Borough Engineer and Surveyor, Carr Bank, Mansfield, Notts., to arrive not later than THURSDAY, the 24th AUGUST, 1961.

A. C. SHEPHERD,
Town Clerk.

Carr Bank,
Mansfield.

AIR MINISTRY

require SENIOR WORKERS UP in Quantities Division in London. Salary which is dependent on age, qualifications and experience ranges from £1,043 to £1,188 (max.) on annual incremental basis. Five-day week with three weeks three days' paid leave a year initially. Some promotion and pension prospects. Qualifications: Applicants, who must be natural born British Subjects, should hold O.N.C. or C. and G. (Quantities) or equivalent and be fully competent to work up entire bills of quantities. Financial assistance and time off allowed for recognised courses of study leading to higher qualifications. Forms from Manager (PE 519), Ministry of Labour Professional and Executive Register, Atlantic House, Farringdon-street, London, E.C.4. Candidates selected will normally be interviewed in London and certain expenses reimbursed. Only applicants selected for interview will be advised.

CHATHAM
BOROUGH.

CLERK OF WORKS.

Applications are invited for the above appointment, for a period of two years in the first instance, at a salary of £16 per week, to supervise road and sewer contracts.

Applicants must be experienced in this class of work and should give full details of their experience in their application.

Housing accommodation will be available in an appropriate case.

The appointment will be:—

(a) In accordance with the National Scheme of Conditions of Service;

(b) Terminable by one month's notice on either side;

(c) Superannuable, subject to satisfactory medical report.

Applications, stating age, present appointment, previous appointments, and the names of two referees, to be delivered to the Borough Engineer and Surveyor, Town Hall, Chatham, not later than FRIDAY, 25th AUGUST, 1961.

ROWLAND NEWNES,
Town Clerk.

Town Hall,
Chatham.

BARNSLEY
COUNTY BOROUGH.

APPOINTMENT OF DEPUTY BUILDING MANAGER.

Applications are invited for the new post of DEPUTY BUILDING MANAGER at a salary in accordance with Grade A.P.T. IV-V (£1,140-£1,480 per annum).

Candidates must be capable administrators and have had considerable supervisory experience with a large Municipal Building Department or Public Works Contractor. A sound technical and practical background in the various branches of the building industry is essential.

Further particulars and form of application available from the Building Manager, Corporation Building Department, Langdale-road, Barnsley, to whom completed applications must be returned by MONDAY, 14th AUGUST, 1961. Canvassing will disqualify.

A. E. GILFILLAN,
Town Clerk.

Town Hall,
Barnsley.
12th July, 1961.

HORNCHURCH
URBAN DISTRICT COUNCIL.

Population: 128,000.
Area: 20,308 acres.

APPOINTMENT OF TWO ARCHITECTURAL ASSISTANTS.

Salary within A.P.T. III (£960-£1,140 p.a.) plus equivalent to London "Weighting."

Interesting work in hand on multi-storey flats, new Civic Centre, public buildings, housing, estates, etc.

Five-day week. Pleasant working conditions in new offices.

Consideration given to provision of housing accommodation.

Particulars and forms for these appointments from the undersigned. Closing date noon on 11th AUGUST, 1961.

P. L. COX,
Clerk of the Council.

Council Offices,
Billet-lane,
Hornchurch.

NORTH-WEST METROPOLITAN
REGIONAL HOSPITAL BOARD.

ASSISTANT CLERK OF WORKS required to assist in supervision of new Welwyn/Hatfield Hospital, Hatfield Hyde, Herts. Applicants must have experience of reinforced concrete work. Appointment expected to last for at least one year.

Salary within scale £800-£1,050.

Consulting structural engineers are Leslie Turner & Partners.

Apply giving age, qualifications and experience with the names and addresses of two referees (preferably employers) to Secretary, North-West Metropolitan Regional Hospital Board, 40 Eastbourne-terrace, London, W.2, by 21st AUGUST quoting reference 957.

CAMBERWELL
METROPOLITAN BOROUGH.

TOWN PLANNING ASSISTANT (BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT).

Salary, National Scales Grades A.P.T. II-III (£855-£1,185 inclusive). Grade and commencing salary according to qualifications and experience. Applicants must have had previous Town Planning experience with a Local Authority and be capable of dealing with applications submitted under the Town Planning and Building Acts including Advertisement Regulations. Preference given to Associate Members of the Town Planning Institute. Application form from Town Clerk, Town Hall, S.E.5. Closing date SATURDAY, 12th AUGUST, 1961.

LONDON
CORPORATION.

Applications are invited from Associate Members of the R.I.B.A. for the appointment of ASSISTANT TO THE SITE ARCHITECT on a large building project for 12 months' duration, at a salary of £1,420 p.a.

Candidates should have had good general experience in the preparation of working details and of contract works and must be expeditious draughtsmen.

Applications, stating age, appointments held and experience, together with names of two referees, to be sent to the City Engineer, Guildhall, London, E.C.2, by 21st AUGUST.

CHELSEA
METROPOLITAN BOROUGH.

BUILDING SURVEYOR
A.P.T. Grade III

£960-£1,140 per annum plus "Weighting" required on staff of the Borough Engineer and Surveyor. Applicants must be capable of carrying out building surveys, preparing estimates, specifications for converting premises and the supervision of these works.

Application forms, obtainable from the Borough Engineer and Surveyor, with the names of three referees, should be received not later than MONDAY, 21st AUGUST, 1961.

Town Hall,
King's-road,
Chelsea, S.W.3.

SURREY COUNTY COUNCIL

Applications invited for following appointments:—

1. ASSISTANT QUANTITY SURVEYOR GRADE V (£1,310—£1,480 p.a. plus £45 p.a. London Allowance). Must be qualified A.R.I.C.S. with experience as Senior Taker-off and of final accounts, estimating, cost analysis and pricing, including directing and supervising team of qualified and junior staff on large public buildings.

2. GRADE IV (£1,140—£1,310 p.a. plus £45 p.a. L.A.)

(a) ARCHITECTS. Must be A.R.I.B.A. and have had experience in preparation of drawings and specifications and be capable of assuming responsibility for medium to large scale contracts.

(b) QUANTITY SURVEYORS. Must be A.R.I.C.S. and have had experience of estimating, taking off, valuing works in progress and final accounts for large public buildings, including all specialist works.

(c) HEATING AND VENTILATING ENGINEERS. Must be A.M.I.H.V.E. and have had experience in design of large heating, ventilating, hot water supply and gas service installations. The successful candidates must be capable of taking charge of works from commencement to final completion.

3. BUILDING SURVEYOR GRADE III (£960—£1,140 p.a. plus £45 p.a. L.A.) Applicants should have a sound knowledge of building construction and be able to prepare plans and specifications.

Applications stating age, qualifications, education and experience, present salary, three copy testimonials, preferably one from present employer, to
COUNTY ARCHITECT, COUNTY HALL, KINGSTON, as soon as possible.

LEEDS REGIONAL HOSPITAL BOARD

(Regional Architect, P. B. Nash, A.R.I.B.A.)

In order to deal with a large capital programme spread over the next 20 years the Regional Architect's Department has been expanded to carry out a proportion of this work. The work offers scope to architects with initiative and particularly those with an appreciation of contemporary architecture. The work to be carried out includes complete new hospitals as well as many associated buildings of wide variety.

Applications are invited for the under-mentioned appointments:—

(a) Senior Assistant Architects

Salary: £1,300 x 60 (5)—£1,600

Candidates must possess the ability to handle contracts valued at £100,000 or more and experience of contemporary design is essential.

(b) Assistant Architects

Salary: £905 x 35 (1) x 45 (6) x 50 (2)—£1,310

Candidates for the above appointments must be registered architects and associate members of the R.I.B.A.
(Qualified architects awaiting registration may be appointed as Architectural Assistant at a salary of £865 per annum.)

(c) Architectural Assistants

Salary: £615 x 30 (8) x 35 (1)—£900

Candidates must have passed the Intermediate Examination of the R.I.B.A.

Applications stating age, qualifications, previous experience and the names of two referees to the Secretary, Park Parade, Harrogate, by 18th August, 1961.

WEST RIDING OF YORKSHIRE
COUNTY COUNCIL.

OFFICE OF THE COUNTY ARCHITECT.

Applications are invited for the following appointments. The commencing salary will be fixed at a point within the scale commensurate with qualifications and experience. Five-day week operated.

ASSISTANT ARCHITECTS.
A.P.T. V. Salary range £1,310-£1,480.
A.P.T. IV. Salary range £1,140-£1,310.

Applicants should be Associate Members of the Royal Institute of British Architects, with a good standard of design ability and a sound knowledge of modern methods of construction and be capable of handling building projects from sketch plans to completion.

SENIOR ASSISTANT QUANTITY SURVEYOR.
J.N.C. scale "B." Salary range £1,495-£1,670.

Applicants should be Associate Members of the Royal Institution of Chartered Surveyors and have had experience in the preparation of Bills of Quantities, measuring for and adjustment of final accounts and should have had experience in and be capable of taking charge of a section.

Applications to be submitted by the FIRST POST on TUESDAY, 22nd AUGUST, 1961, on forms to be obtained from and returned to the undersigned.

A. W. GLOVER, F.R.I.B.A.,
County Architect.

Bishopgarth,
Westfield-road,
Wakefield.

SCARBOROUGH
BOROUGH.
BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

Applications are invited for the following appointments:—

ASSISTANT ARCHITECT. Grade A.P.T. IV (£1,140-£1,310). Applicants should be Associates of the R.I.B.A.

ARCHITECTURAL ASSISTANT. Grade A.P.T. II (£815-£960). Applicants should have passed the Intermediate R.I.B.A. examination or its equivalent.

Both appointments are subject to the provisions of the Local Government Superannuation Acts 1937/1953 and to the passing of a medical examination, and will be terminable by one month's notice on either side.

Housing accommodation will be made available for successful applicants, if married, and the Council will pay one-half of the removal expenses incurred.

Applications in envelopes suitably endorsed, stating age, present and previous appointments, training, qualifications and experience, together with the names of two referees, to be delivered to the undersigned not later than 18th AUGUST, 1961.

V. FORSHAW,
Borough Engineer and Surveyor.
Town Hall,
Scarborough.
July, 1961.

COVENTRY CITY
DEPARTMENT OF

ARCHITECTURE AND PLANNING (QUANTITY SURVEYING DIVISION).
ASSISTANT QUANTITY SURVEYORS. Intermediate qualification, A.P.T. II-III (£815-£1,140).

Appointment may be made according to qualification/experience within combined Grade. Permanent and pensionable subject to satisfactory Medical Certificate.

Housing Accommodation in approved circumstances *OR* up to 95 per cent advance for house purchase. Removal expenses loan.

Good general experience desirable and ability to work with initiative and enthusiasm.

Details and application forms from City Architect and Planning Officer, Council House, Coventry, returnable by 21st AUGUST, 1961.

CARSHALTON
URBAN DISTRICT COUNCIL.

ENGINEER AND SURVEYOR'S DEPARTMENT.
ASSISTANT ARCHITECT (A.P.T. IV).

Salary within range £1,165-£1,355 according to experience. Candidates must have passed Final R.I.B.A. or equivalent. Experience offered on design and supervision of housing, public buildings, etc., in large Urban District within the Greater London area. (Population approximately 60,000.)

Car allowance payable; 5-day week. Good working conditions. Staff canteen.

Application forms obtainable from the undersigned to be returned by 21st AUGUST. Canvassing will disqualify.

C. H. DURRANT,
Clerk of the Council.

District Council Offices,
The Grove,
Carshalton,
Surrey.

SURREY
COUNTY COUNCIL.

Applications invited for CLERKS OF WORKS on major building projects and maintenance. Salary range £17 18s. 1d.-£21 4s. per week according to ability and experience. Must have been properly trained as craftsmen. Application Forms from County Architect, County Hall, Kingston, to be returned to him by 21st AUGUST, 1961.

BOLTON
COUNTY BOROUGH.

HOUSING DEPARTMENT.
BONUS SURVEYOR.

Applications are invited for the above appointment. Salary Grade A.P.T. II (£815-£960).

Candidates must have a sound knowledge of building construction and also have had considerable experience in estimating and incentive bonus schemes in connection with the maintenance of housing properties and public buildings.

Preference given to applicants holding appropriate technical qualifications. Appointment superannuable, subject to medical examination.

Applications, naming two referees, to be received by the Town Clerk not later than 18th AUGUST, 1961.

BATTERSEA
METROPOLITAN BOROUGH.

Applications are invited for the following permanent appointments:

(1) ASSISTANT BUILDING SURVEYOR, A.P.T. Grade III (£960-£1,140).
(2) ASSISTANT BUILDING SURVEYOR, A.P.T. Grade II (£815-£960).
(3) JUNIOR ASSISTANT BUILDING SURVEYOR, General Division (£260-£780).
(4) JUNIOR ASSISTANT QUANTITY SURVEYOR, General Division (£260-£780).

London Weighting is payable in addition—£40 per annum (at age 26 and over) for grades below A.P.T. III and £45 per annum for A.P.T. III.

Commencing salaries will be according to qualifications and experience. Local Government experience is not essential.

Preference will be given to applicants for posts (1) and (2) who are taking examinations of the Royal Institution of Chartered Surveyors (Building Subdivision).

Posts (3) and (4) are for office juniors and offer an opportunity for training as building surveyor and quantity surveyor respectively.

The appointments are subject to the Local Government Superannuation Acts, 1937-1953.

Further particulars and application forms are obtainable from the Borough Engineer and Surveyor, Town Hall, Battersea, S.W.11.

Closing date 21st AUGUST, 1961.

C. M. W. S. FREEMAN,
Town Clerk.

SLOUGH
BOROUGH COUNCIL.

HOUSING DEPARTMENT.
WORKS SUPERINTENDENT.

Applications are invited from suitably qualified persons for the above appointment at a salary in accordance with A.P.T. III (£960 rising to £1,140).

Applicants must have a sound technical and practical background, being widely experienced in all aspects of the building trade, contract procedure, pricing bills of quantities and the preparation of estimates. It will also be an advantage if candidates have had practical experience in the operation of an incentive bonus scheme.

The person appointed must have good administrative ability as he will be responsible for the control of the expanding Works Section of the Housing Department employing 160 building trade operatives engaged on the repair and maintenance of all Council dwellings and municipally-owned buildings, and the execution of minor capital building works.

The post is superannuable. Five-day week. Housing accommodation will be provided, if necessary, and 50 per cent. removal expenses will be paid. A car allowance of £160 per annum will also be paid.

Applications, stating age, qualifications, experience, previous appointments and giving the names of two referees, to reach the Housing Manager, 34 Ledgers-road, Slough, not later than MONDAY, 14th AUGUST, 1961.

N. T. BERRY,
Town Clerk.

ROTHERHAM
COUNTY BOROUGH.

ARCHITECTS.

Applications are invited for the following appointments:

(a) SENIOR ASSISTANT ARCHITECT, A.P.T. V (£1,310-£1,480).
(b) ARCHITECTURAL ASSISTANTS, A.P.T. III-IV (£960-£1,310).

The department has a varied and expanding programme of architectural work including schools and large central redevelopment areas.

Candidates for (a) are required to be Associate Members of the R.I.B.A. and with a good general experience in design and construction. (b) are required to have passed Parts I and II of the R.I.B.A. final examination.

The commencing salary in the grades will be according to capabilities and experience.

Housing accommodation will be available if necessary.

Applications to be endorsed "Architects," stating age, qualifications and details of experience, together with names of two referees, should be received by me not later than FRIDAY, 11th AUGUST, 1961.

Canvassing will disqualify.

JOHN S. WALL,
Town Clerk.

Municipal Offices,
Rotherham.
July, 1961.

OLD FLETTON
URBAN DISTRICT COUNCIL.

TEMPORARY CLERK OF WORKS.

Applications are invited for the post of TEMPORARY CLERK OF WORKS and should be addressed to the undersigned to be received not later than 19th AUGUST, 1961. Applicants should state age, experience, present employment and salary required together with the names of two referees and date available. Canvassing disqualifies.

Candidates must be thoroughly capable and have a sound practical and up to date knowledge of building work and able to undertake the supervision of a Housing Contract consisting of 76 Council Houses of traditional construction, 41 lock-up garages together with the laying in of roads, sewers and all services. They must be able to set out works, take levels, maintain all necessary records and be on the works during all ordinary working hours. The successful applicant will be required to work under the supervision of Messrs. Ruddle and Wilkinson, F./L./A.R.I.B.A. private Architects appointed by the Council for this Scheme.

The Contract period is for 24 months and the appointment will be for the duration of the Contract subject to satisfactory service and to one month's notice on either side.

No upper age limit is prescribed for this appointment but candidates may be called upon to furnish proof of fitness or undergo medical examination.

F. GREENWOOD,
Clerk of the Council.

Council Offices,
High-street,
Old Fletton,
Peterborough.

BATTERSEA
METROPOLITAN BOROUGH.

Applications are invited for the temporary appointment (for a minimum period of two years), of MEASURING ASSISTANT, Grade A.P.T. III, £960-£1,140 per annum plus London Weighting (£45 per annum). Commencing salary will be according to qualifications and experience. Local Government experience is not essential.

The applicant must be conversant with incentive bonus schemes, experienced in target setting, measurement of building works in all trades and capable of preparing interim valuations.

Application forms and further particulars obtainable from Borough Engineer and Surveyor, Town Hall, Battersea, S.W.11.

Closing date 21st AUGUST, 1961.

C. M. W. S. FREEMAN,
Town Clerk.

BIRMINGHAM CITY.

Applications are invited from persons with a wide technical experience in the Building Industry for the post of

ASSISTANT
PROGRESS OFFICER

in the City Architect's Department at a commencing salary within Miscellaneous Division Grade VIII (£875-£925 per annum) according to capabilities and experience.

The successful candidate will assist the Progress Officer, who is responsible for the inspection and take-over of Municipal Dwellings and Ancillary Buildings completed in a very large Housing programme.

Applications stating age, present position and salary, qualifications, experience and two referees to reach the undersigned by 18th AUGUST, 1961.

A. G. SHEPPARD FIDLER,
City Architect.

Baskerville House,
Civic Centre,
Birmingham, 1.

NETHERNE HOSPITAL
COULSDON, SURREY.

WORKS ASSISTANT required—duties will include assisting Building Supervisor—salary range at 26 years and over £590 x £25—£690 plus London Weighting. 38 hours per week. Overtime as required. House will be available in due course.

Full particulars on application to the Secretary.

LANCASHIRE
COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.
ASSISTANT ARCHITECTS.
A.P.T. V (£1,310-£1,480.)
(Starting salary according to experience.)

Applications are invited from qualified Architects of initiative, keen on design and modern constructural methods, to work on a large and varied programme.

If appointed, applicants will be able to claim a disturbance allowance up to a maximum of £125, a facility offered by the County Council to cover the expenses of removal and other associated costs.

Application forms and details of appointment obtainable from the County Architect, P.O. Box 26, County Hall, Preston, returnable by the 25th AUGUST, 1961.

SHEFFIELD CITY.

CITY ARCHITECT'S DEPARTMENT.
APPOINTMENT OF QUANTITY SURVEYORS.

Applications are invited from appropriately qualified persons for the following appointments in the Quantity Surveying Section of the permanent staff of the City Architect, Mr. J. L. Womersley.

(a) SENIOR ASSISTANT QUANTITY SURVEYOR. Grade A.P.T. IV (£1,140-£1,310).

(b) TWO JUNIOR ASSISTANT QUANTITY SURVEYORS. Grade A.P.T. I (£645-£815).

A Chartered Quantity Surveyor is in charge of the Section and the posts offer considerable scope and experience to enthusiastic and progressive Quantity Surveyors.

Commencing salaries within the above grades commensurate with the successful candidates' qualifications and experience.

Assistance with housing accommodation and removal expenses may be given in appropriate cases.

Applications stating post applied for, age, education, training, qualifications, experience, present and past appointments (with dates and salaries) and the names of two referees should reach me by 14th AUGUST, 1961.

JOHN HEYS,
Town Clerk.

Town Hall,
Sheffield, 1.

ROCHDALE AND DISTRICT
HOSPITAL MANAGEMENT COMMITTEE.

WORKS ASSISTANT required for duties in the office of the Building Supervisor and Superintendent Engineer. Duties will include the preparation of specifications, estimates, simple drawings and tracings, the keeping of records and general assistance to these officers. Appropriate training would be given to a person of promise. It will be an advantage for applicants to have a building or engineering background or be craftsman trained. This is an ideal career post for a young man desirous of becoming a Building Supervisor in the Hospital Service. Salary at age 26 or over £590 x £25 (4) to £690 per annum. 38-hour week. Leave entitlement three weeks per year plus all Bank Holidays. Superannuation Scheme. Canteen Facilities.

Application forms are obtainable from Group Secretary, Rochdale and District Hospital Management Committee, Birch Hill Hospital, Rochdale, to whom they should be returned as quickly as possible.

BRENTFORD AND CHISWICK
BOROUGH.

APPOINTMENT OF BUILDING SURVEYOR.

Applications are invited for the appointment of BUILDING SURVEYOR within A.P.T. IV (£1,185-£1,355 per annum, including London Weighting).

Applicants must be suitably qualified and be competent to survey and value property for advances under the Housing Acts and to deal with Improvement Grants. Car allowance payable. Five-day week. Consideration will be given to the provision of housing accommodation if required.

Forms of Application obtainable from the Borough Engineer and Surveyor, Town Hall, Chiswick, W.4, to whom they should be returned by 24th August, 1961.

W. F. J. CHURCH,
Town Clerk.

Town Hall,
Chiswick, W.4.

OXFORD
UNIVERSITY.

ASSISTANT BUILDING SURVEYOR.

Applications are invited for this APPOINTMENT at a salary of £765 with superannuation, and children's allowance.

Duties include preparation of plans, specifications, estimates and supervision of minor works and maintenance. Wide experience is offered. Applicants should be studying for R.I.C.S. examinations.

Applications should be sent to J. Lankester, M.A., A.R.I.C.S., A.M.T.P.I., Surveyor to the University, The Malthouse, Tidmarsh-lane, Oxford.

LANCASHIRE
COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.
ARCHITECTURAL ASSISTANTS.
(Within the salary range £645-£960 according to experience and ability.)

Applications are invited from Architectural Assistants for appointments to the permanent staff of the County Architect's Department, which is engaged on a large and varied programme of major projects.

Applicants should have attained at least Intermediate R.I.B.A. standard and, within this stage of qualification, have a reasonably varied experience.

Application forms and details of appointment obtainable from the County Architect, P.O. Box 26, County Hall, Preston, should be returned by the 25th AUGUST, 1961.

BRACKNELL NEW TOWN (MARK II)
BERKSHIRE.

Applications are invited from

ARCHITECTS
ARCHITECT/PLANNERS
AND ASSISTANTS

for posts under the direction of the Chief Architect, E.A. Ferriby, B. Arch., A.R.I.B.A., A.M.T.P.I., within the following grades:

A.P.T. Grade I, £645—£815 p.a.

A.P.T. Grade IV, £1,140—£1,310 p.a.

A.P.T. Grade VI, £1,305—£1,565 p.a.

- ★ The work of the Corporation has just been extended to increase the target of 25,000 population (at present 21,000) by approximately a further 29,000. This will include large scale housing and flat development for general and upper income groups, neighbourhood shops, community centres, factories, laboratories, warehouses, and Town Centre shops and offices, etc.
- ★ Individuals can be placed according to their special interests and experience.
- ★ Progressive design opportunities exist in accordance with ability.
- ★ Promotion by merit. Annual salary reviews within grades.
- ★ Good landscaped housing accommodation available to rent. Houses also built for sale.
- ★ Five day week and generous annual leave (previous holiday arrangements respected).
- ★ Superannuation scheme transferable with Local Government.
- ★ Pleasant offices and conditions.
- ★ Car allowances when duties necessitate.
- ★ Interviews Wednesday, 16th August for those shortlisted.

Applications stating grade applied for, age, education, qualifications, experience, details of present and former employment and salaries, together with the names and addresses of two referees must reach the General Manager (A), Bracknell Development Corporation, Farley Hall, Bracknell, Berks, not later than 8th August, 1961.

METROPOLITAN BOROUGH OF BATTERSEA

New Appointments in the Building Works Section of the Borough Engineer and Surveyor's Department

WORKS MANAGER

(Scale C—£1560–£1825 p.a.)

SMALL-WORKS MANAGER

(Scale A—up to £1565 p.a.)

WORKS SUPERVISORS (3)

(£17 to £18 per week)

The present volume of building works is being raised to about £½ million per year and the department as a whole is being reorganised in consequence. Present and future schemes include large blocks of flats, maisonettes, houses, clinics, depots, shops and offices, as well as some £100,000 worth of conversions and improvements to existing housing.

The WORKS MANAGER will be required to take charge of the work of the direct labour sections of the department engaged on capital building schemes, small works, maintenance and workshops.

The salary offered provides for the additional responsibilities of control of the Highways Works, Cleansing and Transport Sections of the department, which may be added to the duties of the post at the discretion of the Council.

Applicants must have considerable managerial experience and ability, with or without professional qualifications, and must be prepared to co-operate fully in the reorganisation.

The SMALL-WORKS MANAGER will be directly responsible to the Works Manager for the carrying out by direct labour of maintenance work to all Council buildings, for conversions and improvements of housing and such other small building schemes as may be allocated to him.

Applicants must have had experience of this type of work, though not necessarily with a local authority.

The salaries for both appointments will be fixed according to experience and ability. The appointments will be subject to the Provisions of the Local Government Superannuation Acts, and will be determinable by one month's notice on either side.

The WORKS SUPERVISORS will be responsible under the direction of the Small-Works Manager for the maintenance, conversion and improvement works by direct labour. Two Supervisors are required for conversions and improvements, and one for maintenance work.

Applicants should have a sound knowledge and experience of controlling such works. Salary according to experience.

Application forms and further particulars can be obtained from the Borough Engineer & Surveyor, Town Hall, Battersea, London, S.W.11, to whom they should be returned not later than Thursday, 24th August, 1961.

C. M. W. S. FREEMAN, Town Clerk.

CORBY NEW TOWN

ASSISTANT ARCHITECTS

There are vacancies for Assistant Architects within the department of the Chief Architect at salaries within Grade APT IV (£1,140—£1,310). The appointments offer exceptional experience and extensive development work will continue for many years.

Housing is available and removal expenses will be paid. There is a Superannuation Scheme either under the conditions of the Local Government Superannuation Act or under the New Towns Pension Fund.

Apply by Tuesday, 15th August, 1961, stating age, present appointment and salary, details of qualifications and experience and the names of two referees, to—

R. F. Brooks Grundy, General Manager,
Corby Development Corporation,
Spencer House,
CORBY, Northants.

NEW SARUM CITY.

SENIOR ARCHITECTURAL ASSISTANT required in the City Engineer's Department. Salary Grade A.P.T. V, £1,310-£1,480.

Applicants must possess final R.I.B.A. and have had experience in design and detailing of housing schemes, estate layouts and public buildings, and in the supervision and handling of contracts.

The Council has a large capital works programme in hand including a comprehensive redevelopment area and the successful applicant will be responsible directly to the City Engineer for the organisation and work of the architect's section of the Department.

Pensionable post. Medical examination required. Five-day week. Housing accommodation offered. Assistance with removal expenses. Car allowance.

Applications, stating age, present and previous appointments with salaries, with the names of two referees, to the City Engineer, The Council House, Bourne Hill, Salisbury, by 19th AUGUST, 1961.

GEO. RICHARDSON,
Town Clerk.

AYLESBURY
BOROUGH.

BUILDING AND HOUSE MAINTENANCE DEPARTMENT.

Applications are invited for the appointment of CLERK in the Building and House Maintenance Department. This is a permanent post and the person appointed should have experience as a builder's clerk, with knowledge of modern costing methods, storekeeping, records, job allocation and the routine of general building office procedure.

Salary Clerical II, £710-£815. National Joint Council conditions of service, and five-day week.

Applications to the Building and House Maintenance Officer, Building and House Maintenance Dept., Clover-lane, Southcourt, Aylesbury.

R. D. W. MAXWELL,
Town Clerk.

Town Hall,
Aylesbury.
28th July, 1961.

MIDDLESBROUGH
COUNTY BOROUGH.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.
Chief Town Planning Officer Scale C (£1,560-£1,825).

The County Borough is in the centre of one of the most rapidly developing areas in the country. The Department has an urgent programme including the Review of the Development Plan and particularly the redevelopment of the Central Area including Comprehensive Development Area procedure, with a view to the implementation of practical schemes in the near future. In addition to development control, the section deals with the preparation of comprehensive layouts for neighbourhood units and Council development of the layout of areas for industrial development.

The post carries Section Head status and requires leadership, experience and drive particularly the ability to stimulate imaginative and creative ideas. The person appointed must be A.M.T.P.I. and in addition should have another professional qualification in Engineering, Architecture or Surveying, with comprehensive experience in Town Planning including organisation of staff, committee work, inquiries, appeals and related duties.

N.J.C. Conditions and Superannuation. Starting salary within the grade will be determined according to qualifications and experience.

Housing accommodation considered.

Forms of application from Borough Engineer and Surveyor, Municipal Buildings, returnable together with names of three referees, by 15th SEPTEMBER.

BIRMINGHAM CITY.

CITY ARCHITECT'S DEPARTMENT.
APPOINTMENT OF SENIOR HOUSING ARCHITECT.
Senior Officers' Scale "H" (£2,470 to £2,785).

Applications are invited for the appointment of SENIOR HOUSING ARCHITECT, to be responsible to the City Architect for the Housing Section.

An Architect with outstanding design ability is required with a real enthusiasm for the design, planning and programming of large scale schemes both in the redevelopment areas and on suburban sites. The post offers a considerable scope for the development of new ideas, both on the design side and the employment of new development techniques. The City's housing programme involves a capital expenditure of some £6,000,000 per annum.

The commencing salary will be fixed within the Senior Officers' Scale "H" (£2,470 to £2,785) according to experience of the successful candidate.

Applications, giving age, present position and salary, and details of qualifications and experience, together with the names of two persons to whom reference may be made, should reach the undersigned not later than 25th AUGUST, 1961.

A. G. SHEPPARD FIDLER,
City Architect.

Baskerville House,
Civic Centre,
Birmingham, 1.

KIDDERMINSTER
BOROUGH.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

Applications are invited for the position of ASSISTANT ARCHITECT, Grade III (£960-£1,140). Applicants should have passed the intermediate examination of the R.I.B.A. and preferably part of the R.I.B.A. final examination.

This appointment will be subject to the Local Government Superannuation Acts and the National Scheme of Conditions of Service.

Applications stating qualifications and experience accompanied by the name of two referees should be delivered to the Borough Engineer and Surveyor, 110 Mill-street, Kidderminster, not later than 26th AUGUST, 1961.

J. L. EVANS,
Town Clerk.

Town Hall,
Kidderminster.
24th July, 1961.

BIRMINGHAM CITY.

Applications are invited from candidates trained as craftsmen and with a thorough knowledge of the Building Trade for appointments in the City Architect's Department as

CLERKS OF WORKS

for various Civic Buildings and Municipal Dwellings (including multi-storey flats).

Commencing salaries within Miscellaneous Division Grade VIII (£875-£925 per annum) according to capabilities and experience.

Applications stating age, present position and salary, qualifications, experience and two referees to reach the undersigned by 18th AUGUST, 1961.

A. G. SHEPPARD FIDLER,
City Architect.

Baskerville House,
Civic Centre,
Birmingham, 1.

BRADFORD CITY.

CITY ARCHITECT'S DEPARTMENT.

Applications are invited for the following posts:—

(a) ASSISTANT ARCHITECTS, A.P.T. V (£1,310-£1,480).
(b) ASSISTANT ARCHITECTS, A.P.T. IV-V (£1,140-£1,480).
(c) ARCHITECTURAL ASSISTANTS, A.P.T. II (£815-£960).
(d) ARCHITECTURAL ASSISTANTS, A.P.T. I (£645-£815).

Applicants for posts (a) and (b) must be fully qualified and in the case of post (b) the commencing salary will be fixed within the grade according to experience.

Applicants for posts (c) and (d) must have passed the Intermediate Examination of the R.I.B.A. and in the case of post (c) must have had at least two years' experience after passing the examination.

The Department is engaged upon a wide and varied programme of major projects, including a large development scheme for a College of Advanced Technology, comprising buildings for general Teaching and Lecture purposes, Chemical Technology, Chemical Engineering, Nuclear Science, as well as multi-storey hostels.

Other projects include new Courts and Police Headquarters, Swimming Baths, Branch Libraries, a large Central Library, Old People's Hostels, Fire Stations, etc.

No assistance can be given in the provision of housing accommodation.

Application forms obtainable from the City Architect, Town Hall, Bradford 1, returnable by 19th AUGUST, 1961.

HENRY PATTEN,
Town Clerk.

Town Hall,
Bradford, 1.

ETON
RURAL DISTRICT COUNCIL.

APPOINTMENT OF SURVEYING ASSISTANT.
ENGINEER AND SURVEYOR'S DEPARTMENT.

Applications are invited for the ABOVE APPOINTMENT at a salary within Grade A.P.T. II (£815-£960 per annum). Housing accommodation will be available to the person appointed, if necessary, and the Council normally assist with removal expenses.

Applicants, who should be of intermediate R.I.C.S. or R.I.B.A. standard, should be generally experienced in housing estate development and have specialised knowledge of house design and detailing.

The appointment which will be subject to the Council's Conditions of Service and the provisions of the Local Government Superannuation Acts may be terminated by one month's notice on either side.

Applications stating age, education, experience and giving the names and addresses of two technical referees, should be sent to the undersigned to arrive not later than the 11th AUGUST, 1961.

D. P. HARRISON,
Clerk to the Council.

Council Offices,
Windsor-road,
Slough,
Bucks.

UXBRIDGE
BOROUGH.

CLERK OF WORKS.

Applications are invited for the above temporary appointment.

Applicants must possess good experience in the supervision of houses and flats under construction and must have a sound knowledge of all trades. The salary will be in accordance with the maximum of A.P.T. Grade I (£815 plus London Weighting up to £40 p.a.).

Applications, stating age, experience and present employment, with the names and addresses of two persons from whom references can be obtained, should be sent to Harold E. G. Stripp, A.M.I.C.E., Borough Surveyor, 263 High-street, Uxbridge, by 9 a.m. on the 21st AUGUST, 1961.

E. RONALD WEST,
Town Clerk.

Council Offices,
Uxbridge.

HUNTINGDONSHIRE.

COUNTY SURVEYOR'S DEPARTMENT.

Applications are invited for the appointment of CLERK OF WORKS in connection with the reconstruction of the Great North-road, salary £15 15s. per week. Applicants should have had good experience in the supervision of constructional contracts on road and bridge schemes. The appointment is not established but there is an extensive programme of roadworks in hand.

Applications stating age, training, experience, present position and salary together with copies of two testimonials should be sent to R. E. C. Dorling, B.Sc.(Eng.), A.M.I.C.E., County Surveyor, Walden House, Huntingdon, by not later than WEDNESDAY, 9th AUGUST, 1961.

A. C. AYLWARD,
Clerk of the County Council.

County Buildings,
Huntingdon.

WREXHAM
BOROUGH.

ENGINEER AND SURVEYOR'S DEPARTMENT.
ARCHITECTURAL ASSISTANTS.

Applications are invited for:

1. ASSISTANT ARCHITECT. Salary within the range of A.P.T. III (£960-£1,140 p.a.).
2. ASSISTANT ARCHITECT. Salary within the range of A.P.T. I (£645-£815 p.a.).

Housing accommodation for 1 and 2 and car allowance for 1 offered.

Further particulars from the Borough Surveyor. Closing date for applications, MONDAY, 21st AUGUST, 1961.

PHILIP J. WALTERS,
Town Clerk.

Guildhall,
Wrexham.
18th July, 1961.

CUMBERLAND
COUNTY COUNCIL.

Applications are invited for the appointment of JUNIOR ASSISTANT QUANTITY SURVEYOR. Salary within A.P.T. Grades I and II (£645-£960) Commencing salary according to qualifications and experience. N.J.C. Service Conditions. Post pensionable. Subject to medical examination.

Applicants should be Intermediate R.I.C.S. standard (or equivalent).

Further particulars and forms of application from the County Architect, 15 Portland-square, Carlisle, to whom completed applications should be returned not later than 16th AUGUST, 1961.

G. N. C. SWIFT,
Clerk of the County Council.

HAYES & HARLINGTON
U.D.C.

ASSISTANT ARCHITECT required by Hayes & Harlington U.D.C. Salary within grade A.P.T. IV, i.e. £1,140-£1,310 p.a., plus appropriate London "Weighting." Preference given to finalists of the R.I.B.A. Successful candidate must be capable of preparing sketch designs, full working drawings, specifications, supervision of building contracts, etc. Housing accommodation provided if necessary. Five-day week.

Further particulars and conditions of service and form of application obtainable from the undersigned, which when completed must be returned by 14th AUGUST, 1961.

GEORGE HOOPER,
Clerk and Solicitor.

Town Hall,
Hayes, Middlesex.

GREENWICH
METROPOLITAN BOROUGH.

APPOINTMENT OF PRINCIPAL ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of a PRINCIPAL ARCHITECTURAL ASSISTANT in the Borough Engineer and Surveyor's Department. Salary grade A.P.T. V (£1,355-£1,525 per annum, including London Weighting). Commencing salary in accordance with qualifications and experience.

Candidates should be Registered Architects, preferably Associates of the R.I.B.A., with experience in housing and other municipal projects.

Application forms, obtainable from the Borough Engineer and Surveyor, Town Hall, Greenwich High-road, S.E.10, are to be returned to him by NOON on FRIDAY, 18th AUGUST.

THE WAR DEPARTMENT

require
QUANTITY SURVEYING ASSISTANTS,
IN THE ALDERSHOT, SALISBURY AND OXFORD AREAS.

Candidates must have had experience in a professional office or with Building Contractor and/or a course of technical training in Quantity Surveying.

Part professional qualifications or possession of C. & G. final certificate in Builders Quantities or equivalent would be an advantage.

Work is varied covering estimating, working up, site measurement and final accounts, all under Chartered Quantity Surveyor.

Starting pay (on a scale £501 to £988) is based on age, qualification and experience. Prospects of establishment and promotion. Normal week 42 hours (net) over five days.

Application forms obtainable from:
Command Works Office,
H.Q. SOUTHERN COMMAND,
SALISBURY, Wilts.

EAST RIDING OF YORKSHIRE
COUNTY COUNCIL.

Applications are invited for the permanent appointment of an ENGINEERING ASSISTANT (HEATING) on the staff of the County Architect at a salary in accordance with the N.J.C. Scales, A.P.T. I (£645-£815 per annum).

Candidates should preferably be Graduate Members of the Institution of Heating and Ventilating Engineers and should have had practical training and experience in the design, supervision and maintenance of heating and hot water installations.

Applications, giving particulars of age, training, qualifications, experience, past and present appointments with salaries, together with the names of three referees, should be sent to the County Architect, County Hall, Beverley, not later than FRIDAY, 18th AUGUST, 1961.

THOMAS STEPHENSON,
Clerk of the County Council.

SOUTHGATE
BOROUGH.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.
ARCHITECTURAL ASSISTANT.

Applications are invited for the following appointment in the Department of the Borough Engineer and Surveyor.

A.P.T. Grade II, £815-£960 plus London Weighting.

The post is established and superannuated and the starting salary will be fixed in accordance with qualifications and experience.

Housing accommodation will be available in suitable cases if required.

Forms of application may be obtained from the Borough Engineer and Surveyor and should be returned to the undersigned not later than 12 NOON on MONDAY, 21st AUGUST, 1961.

Canvassing, directly or indirectly, will be a disqualification.

GORDON H. TAYLOR,
Town Clerk.

Town Hall,
Palmers Green,
London, N.13.
August, 1961.

KIRKBY
URBAN DISTRICT COUNCIL.

ASSISTANT BUILDING INSPECTOR.

Applications are invited for this vacancy in the Engineer and Surveyor's Department. Salary within A.P.T. Grades I to II (£645 to £960 per annum) according to ability, experience and qualifications. Applicants should be appropriately qualified and have some experience of industrial development.

The post offers an opportunity for wide experience in a new and expanding Town. Five-day week. Assistance with removal expenses and house purchase facilities for married applicants.

Applications with full details and the names and addresses of two referees, to me not later than 18th AUGUST.

Canvassing disqualifies. Relationship to be disclosed.

W. BYRON,
Clerk of the Council.

Council Offices,
Kirkby Hall,
Hall-lane,
Kirkby,
Nr. Liverpool.

EAST RIDING OF YORKSHIRE
COUNTY COUNCIL.

Applications are invited for the appointment of a CHIEF QUANTITY SURVEYOR on the staff of the County Architect. The salary will be in accordance with Scale "A" (£1,340-£1,565).

Applicants must be members of the Royal Institution of Chartered Surveyors and have had wide experience in the preparation of estimates, bills of quantities, cost analysis, adjustment of final accounts and other work incidental to such an appointment, including the control of staff.

Applications, giving particulars of age, past and present appointments with salaries, details of experience, together with the names of three referees, should be sent to the County Architect, County Hall, Beverley, not later than THURSDAY, 31st AUGUST, 1961.

THOMAS STEPHENSON,
Clerk of the County Council.

Borough of Tottenham

Borough Engineer & Surveyor's Department

The following positions on the Established Staff provide varied and interesting work in a municipal borough of 116,000 population:—

(a) Surveying Assistants:-

Estate & Valuation Surveying.
APT Grade IV/V—£1,140 to £1,480 per annum.

(b) Surveying Assistant:-

Building Surveying.
APT Grade IV/V—£1,140 to £1,480 per annum. Casual user car allowance payable.

London Weighting of £45 per annum is payable in addition and commencing salaries will be within above grades according to experience and ability.

Applicants for these posts should be corporate members of the R.I.C.S. (Valuation or Building Sub-Divisions) and should have experience in either estate management work, acquisition of properties, valuation and negotiations for houses, business and industrial properties, etc., or, surveys of buildings, conversions and works of maintenance. Experience in town planning would be an advantage.

Five-day week; staff restaurant facilities; part removal expenses reimbursed.

Conditions of Appointment and Application Form, which should be returned not later than 14th August, 1961, are obtainable from the Borough Engineer and Surveyor (B), Town Hall, Tottenham, N.15.

M. LINDSAY TAYLOR,
Town Clerk.

ARCHITECTS

Borough of Tottenham—Middlesex—Population 116,000

Applications are invited from architects who wish to be engaged on extensive schemes of urban renewal, including layouts for housing estates and shopping precincts, the design and construction of multi-storey flats and other domestic buildings, public buildings and school work.

(*a*) **SENIOR ASSISTANT ARCHITECTS** :—
JNC "A"—£1,310 to £1,565 per annum.

(*b*) **ASSISTANT ARCHITECT** :—
APT Grade IV—£1,140 to £1,310 per annum.

(*c*) **ARCHITECTURAL ASSISTANTS** :—
APT Grade II—£815 to £960 per annum.

All appointments will be to the established staff and commencing salaries will be according to experience and ability. London Weighting (£15 to £45) is payable in addition to posts (*b*) and (*c*).

Applicants for posts—

(*a*) and (*b*) should hold a final professional qualification;

(*c*) should have passed R.I.B.A. Intermediate Examination or equivalent.

Five-day week; part removal expenses reimbursed; staff restaurant facilities.

Application Form, obtainable from the Borough Engineer and Surveyor (B), Town Hall, N.15, should be returned to him not later than 14th August, 1961.

M. LINDSAY TAYLOR,
Town Clerk.

MIDDLESEX
COUNTY COUNCIL.

COUNTY PLANNING DEPARTMENT.

(a) SENIOR PLANNING ASSISTANTS (A.P.T. III-IV, £960-£1,310). Development Plan and Research or Development Control duties. Preference given to candidates with good town planning experience and suitable qualifications.

(b) TOWN PLANNING ASSISTANTS (A.P.T. II, £815-£960) for either Survey and Plan or Development Control duties. Town planning experience desirable, but candidates with good University degree considered.

(c) TOWN PLANNING DRAUGHTSMEN (A.P.T. I, £645-£815). Town Planning or cartographical experience desirable.

All posts: plus London Weighting. Prescribed conditions. Application forms from County Planning Officer, 25 Buckingham Gate, S.W.1, returnable by 25th AUGUST. (Quote G.955B.)

NOTTINGHAM CITY.

WATER DEPARTMENT.
APPOINTMENT OF CLERK OF WORKS (PERMANENT).
(REVISED ADVERTISEMENT.)

Applications are invited from persons with a good experience of reinforced concrete work, and preferably of water-retaining structures, for the permanent, pensionable appointment of CLERK OF WORKS. Salary according to experience, in Grade A.P.T. II, viz. £815-£960. The successful candidate should possess a car, in respect of which a "casual user allowance" will be paid.

Applications, with names of two persons to whom reference may be made, to Engineer and General Manager, Water Department, Castle Boulevard, Nottingham, not later than 15th AUGUST.

T. J. OWEN,
Town Clerk.

The Guildhall,
Nottingham.

CORBY NEW TOWN

SENIOR ASSISTANT ARCHITECT

There is a vacancy for a Senior Assistant Architect within the department of the Chief Architect at a salary within the Grade APT V (£1,310—£1,480 per annum). The appointment offers exceptional experience and extensive development work will continue for many years.

Housing is available and removal expenses will be paid. There is a Superannuation Scheme either under the conditions of the Local Government Superannuation Act or under the New Towns Pension Fund.

Apply by Tuesday, 15th August, 1961, stating age, present appointment and salary, details of qualifications and experience and the names of two referees, to—

R. F. Brooks Grundy, General Manager,
Corby Development Corporation,
Spencer House,
CORBY, Northants.

LANCASHIRE
COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.
SENIOR ASSISTANT ARCHITECTS.
(N.J.C. Scale "B," £1,505-£1,670.)

Applications are invited from experienced Architects for posts on the permanent staff. The County Council has a large and extremely varied building programme, and posts will be filled by men of initiative, imagination and a flair for sensitive design.

Applicants are expected to be Registered Architects, as well as Associates of the Royal Institute of British Architects and, if appointed, will be able to claim a disturbance allowance up to a maximum of £125, a facility offered by the County Council to cover the expenses of removal and other associated costs.

Application forms and conditions of appointment are obtainable from the County Architect, P.O. Box 26, County Hall, Preston, returnable by the 25th AUGUST, 1961.

STAFFORDSHIRE
COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.
VACANCIES:
ARCHITECTURAL ASSISTANTS, £815-£960. Inter. R.I.B.A. required.
ARCHITECTURAL DRAUGHTSMEN. £555-£625. Four years' experience in a similar capacity is required.

Good working conditions, five-day week, assistance with removal expenses, etc. The Council has a scheme for loans to employees wishing to purchase their own houses.

Forms of application from P. Woodcock, F.R.I.B.A., County Architect, Green Hall, Lichfield-road, Stafford.

Closing date 16th AUGUST, 1961.

T. H. EVANS,
Clerk of the County Council.

LANCASHIRE
COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.
ASSISTANT ARCHITECTS.
A.P.T. IV (£1,140-£1,310.)
(Starting salary according to experience.)

Applications are invited from qualified Architects of initiative, keen on design and modern constructural methods, to work on a large and varied programme.

If appointed, applicants will be able to claim a disturbance allowance up to a maximum of £125, a facility offered by the County Council to cover the expenses of removal and other associated costs.

Application forms and details of appointment obtainable from the County Architect, P.O. Box 26, County Hall, Preston, returnable by the 25th AUGUST, 1961.

BERMONDSEY
METROPOLITAN BOROUGH.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.
ASSISTANT ARCHITECT.

Applications are invited from persons under 51 years of age on 28th AUGUST, 1961, for the permanent appointment of ASSISTANT ARCHITECT, Grade A.P.T. III-IV (£960-£1,310) plus £45 London Weighting, commencing salary according to experience. Applicants must have passed Final R.I.B.A. examination and should have experience in multi-storey dwellings.

Applications, on forms to be obtained from the undersigned, to be submitted by 28th AUGUST, 1961.

J. S. LAMBERT,
Town Clerk.

Municipal Offices,
Spa-road, S.E.16.

BIRMINGHAM CITY.

Applications are invited from enthusiastic and imaginative fully qualified ARCHITECTS for a number of new appointments on the Senior Officers' Scale "C"—£1,560 x £70 (3) x £55 (1)—£1,825 per annum—to take part in a large programme of work being carried out by the City Architect's Department.

The Architects appointed will be primarily concerned with comprehensive Housing Development involving multi-storey flats or with educational projects, schools, etc.

Commencing salaries within the Scale will be according to capabilities and experience.

Pension Scheme. Five-day week. Medical examination.

Applications stating age, present position and salary, qualifications, experience and names of two referees, to reach the undersigned by 25th AUGUST, 1961.

A. G. SHEPPARD FIDLER,
City Architect.

Baskerville House,
Civic Centre,
Birmingham, 1.

CIVIL SERVICE COMMISSION.

QUANTITY SURVEYORS.

Pensionable posts for men and women in:

Admiralty
War Department
Air Ministry
Ministry of Education
Ministry of Health
Ministry of Housing and Local Government
Ministry of Works.

Age at least 25 and under 35 on 1st January, 1961 (extension for regular Forces service, Overseas Civil Service, established civil service and temporary Government service as Quantity Surveyor). Candidates must have achieved Corporate Membership of R.I.C.S. (Quantities Section) or have passed examinations necessary for attaining such membership. National salary £936-£1,258 according to age, rising to £1,430. Promotion prospects.

Write Civil Service Commission, 17 North Audley-street, London, W.1, for application form quoting S/63.

READING
COUNTY BOROUGH.

Applications are invited for the following posts: (a) ASSISTANT ARCHITECTS, A.P.T. III-IV (£960-£1,310); (b) ARCHITECTURAL ASSISTANTS, A.P.T. I (£645-£815). Commencing salaries for all posts according to qualifications and experience. Applicants for Post (a) to have passed parts I and II R.I.B.A., Final or Special Final Examination or equivalent and have had at least five years' experience. Eligibility for A.P.T. IV dependent on two years' service in Local Government in post requiring above qualification. Housing accommodation will be considered. Applicants for posts (b) to have R.I.B.A. Intermediate Certificate or equivalent. All appointments are permanent and subject to Local Government Superannuation Acts on passing medical examination and to N.J.C. Conditions of Service. Applications in writing in appropriately-endorsed envelope, stating age, qualifications and experience, together with names and addresses of two referees to the Borough Architect, P.O. Box 17, Town Hall, Reading, not later than 12th AUGUST, 1961.

NORTH RIDING
COUNTY COUNCIL.

Opportunities for applicants of initiative and drive, and who appreciate a five-day week in good working conditions, for dealing with a varied programme of work for all Committees of the Council.

Position within the salary range shown below will be given according to ability and qualifications.

(a) ASSISTANT ARCHITECTS. Grade A.P.T. IV/V, £1,140-£1,480. Must have passed the Final Examination of the R.I.B.A.

(b) ARCHITECTURAL ASSISTANTS. Grade A.P.T. III, £960-£1,140. Must have passed Part I of the Final Examination of the R.I.B.A.

(c) ARCHITECTURAL ASSISTANTS. Grade A.P.T. II, £815-£960. Must have passed the Intermediate Examination of the R.I.B.A.

Application forms may be obtained from the County Architect, R. Allport Williams, M.B.E., B.Arch., F.R.I.B.A., County Hall, Northallerton. Completed forms should be returned to the Clerk of the County Council, County Hall, Northallerton, by the 25th AUGUST, 1961.

CHATHAM
BOROUGH.

CLERK OF WORKS.

Applications are invited for the above appointment in the Borough Engineer and Surveyor's Department at a salary of £16 per week.

Candidates must be trained craftsmen, have a thorough knowledge of the Building Trades and of Plans, Specifications, and Bills of Quantities, and be experienced in multi-storey flat construction embracing piling and reinforced concrete work. They must be competent to set out work, check variations, keep proper records and submit reports.

HOUSING ACCOMMODATION WILL BE AVAILABLE IN AN APPROPRIATE CASE.

The appointment will be:

(a) In accordance with the National Scheme of Conditions of Service.

(b) Terminable by one month's notice on either side.

(c) Superannuable, subject to satisfactory medical report.

Applications to be delivered to the Borough Engineer and Surveyor, Town Hall, Chatham, not later than FRIDAY, 25th AUGUST, 1961.

ROWLAND NEWNES,
Town Clerk.

Town Hall,
Chatham.

ENFIELD
BOROUGH.

CLERK OF WORKS.
BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

Applications are invited for the ABOVE TEMPORARY APPOINTMENT at a salary of £15-£16 per week according to qualifications and experience.

Candidates should have had considerable experience in the supervision of the construction of roads and sewers in connection with Estate development and supervision of road construction works by Contract and should be capable of setting out works.

Application forms, returnable by 10th AUGUST, 1961, obtainable from Borough Engineer and Surveyor, 7 Little Park-gardens, Enfield, Middx.

CYRIL E. C. R. PLATTEN,
Town Clerk.

Civic Centre,
Enfield,
Middlesex.

CHATHAM
BOROUGH.

WORKS AND HIGHWAYS SUPERINTENDENT.

Applications are invited for the above appointment at a salary in accordance with Grade A.P.T. II (£815-£960).

Applicants should be experienced in the construction and maintenance of roads and sewers, refuse and salvage collection and disposal, control of Depots and manual employees.

Preference will be given to candidates who are members of the Institute of Works and Highways Superintendents, or hold a similar qualification. The successful applicant will be required to drive a car.

HOUSING ACCOMMODATION WILL BE MADE AVAILABLE IN AN APPROPRIATE CASE.

The appointment will be:

(a) In accordance with the National Scheme of Conditions of Service.

(b) Terminable by one month's notice on either side.

(c) Superannuable, subject to satisfactory medical report.

In accordance with their usual practice the Council will require the successful candidate to give an undertaking to remain in the Council's service for two years.

Particulars of the appointment and list of duties may be obtained from Mr. J. A. T. Richards, Borough Engineer and Surveyor, Town Hall, Chatham, to whom applications should be delivered not later than FRIDAY, 25th AUGUST, 1961.

ROWLAND NEWNES,
Town Clerk.

Town Hall,
Chatham.

STOKE-ON-TRENT
HOSPITAL MANAGEMENT COMMITTEE.

WORKS ASSISTANT required in Central Maintenance Department at City General Hospital, Stoke-on-Trent. Experience in preparation of drawings and specifications, and the supervision and reporting of building works will be an advantage.

Salary at age 26 or over, £590 p.a., rising to a maximum of £690.

Applications, stating age, technical qualifications, practical experience and the names of two referees, to Group Secretary, Princes-road, Stoke-on-Trent.

KINGSTON-UPON-THAMES
ROYAL BOROUGH.

APPOINTMENT OF ASSISTANT ARCHITECT
(A.P.T. GRADE V: £1,310-£1,480 per annum, plus London Weighting).

Applications are invited for the above mentioned appointment.

THE COUNCIL WILL GIVE ASSISTANCE TOWARDS THE PROVISION OF HOUSING ACCOMMODATION, IF REQUIRED.

Details and application form obtainable from Borough Surveyor, Guildhall, Kingston-upon-Thames, and returnable by 21st AUGUST, 1961.

L. V. POWELL,
Town Clerk.

Guildhall,
Kingston-upon-Thames.
28th July, 1961.

OVERSEAS PUBLIC APPOINTMENTS

TECHNICAL MASTER

(CARPENTRY INSTRUCTOR).

Required by NORTHERN RHODESIA GOVERNMENT AFRICAN EDUCATION MINISTRY (A) on agreement with prospect of admission to permanent and pensionable establishment or (B) on contract with gratuity of £100-£200 a year. Initial tours of 36 months, thereafter 24 to 30 months. Salary according to age and experience in scale £845 rising to £1,720 a year. Free passages. Liberal leave on full salary. Quarters available at moderate rental.

Candidates, 24-35, must possess Final C. and G. or equivalent and experience as foreman. Teaching certificate and/or teaching experience an advantage.

Apply to CROWN AGENTS, 4 Millbank, London, S.W.1, for application form and further particulars, stating age, name, brief details of qualifications and experience and quoting reference M2B/51322/BH.

CEYLON.
DEPARTMENT OF GOVERNMENT ELECTRICAL UNDERTAKINGS.

POSTS OF FOREMAN INSPECTOR (TUNNEL).
HYDRO-ELECTRIC SCHEME, STAGE IIB.

Applications are invited for 4 posts of FOREMAN INSPECTOR (TUNNEL) in the Department of Government Electrical Undertakings for work in connection with the above scheme. The appointments will be for a period of 3 years.

The Salary of the post is £1,200-£1,500 per annum according to experience of the candidate selected which will be paid at the current rate of exchange.

Applicants who will be required to furnish a Medical Certificate as to their physical fitness for service in Ceylon, should have considerable experience in driving and lining of tunnels in rock.

The Ceylon Government will contribute 7½ per cent. of salary to a Provident Fund. Free passages to the Island and back will be provided for the successful applicant and his family up to a maximum of four persons besides the applicant. Rent Allowance, if not in occupation of Government Quarters, and cost of living allowance are payable in terms of Government Regulations in force at the time.

A specimen copy of the letter of appointment could be inspected at the Office of the Ceylon Government Representative.

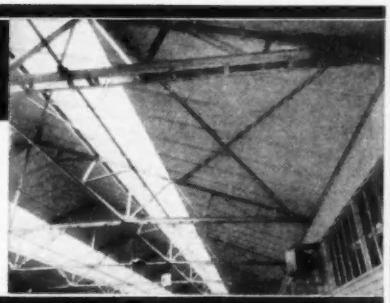
Applications, giving full details of experience, should be submitted in triplicate with three copies of testimonials WITHIN TWO WEEKS from appearance of this advertisement to the Consulting Engineers, Preece, Cardew & Rider, 8, 10 and 12 Queen Anne's Gate, Westminster, London, S.W.1.

new techniques & long experience

AT YOUR SERVICE WITH

METCO
METAL FIXING SYSTEMS

STRUCTURAL INSULATION

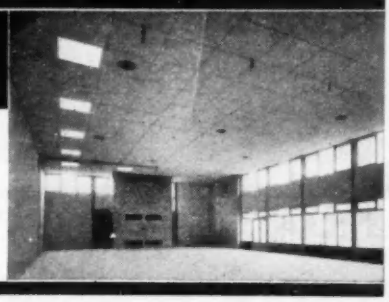


SOUND ABATEMENT

UNITEX
ACOUSTIC TILES

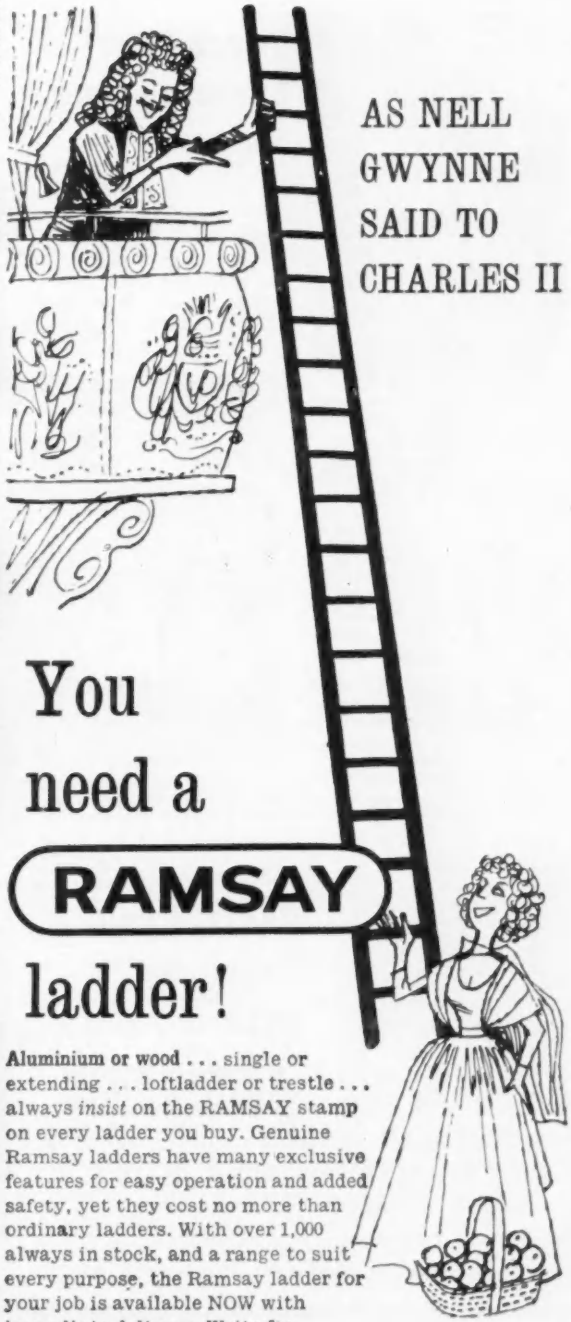
'VEELAP'
INSULATING PANELS

SUSPENDED CEILINGS
3' 4" module
(other sized panels available)



Bring us your problems for complete and up-to-date service 'from drawing-board to finished job'. We'll be glad to help you.

The MERCHANT TRADING COMPANY Limited
ADRIENNE AVENUE, SOUTHALL, MIDDX.
TELEPHONE: WAXLOW 6381



AS NELL GWYNNE SAID TO CHARLES II

You need a RAMSAY ladder!

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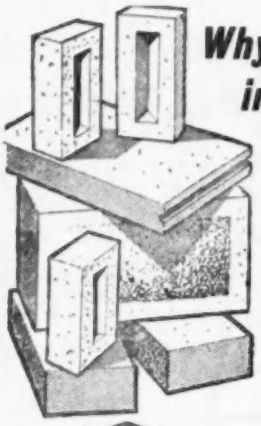

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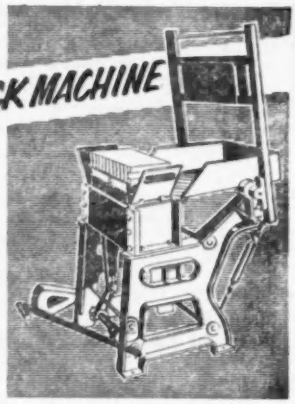

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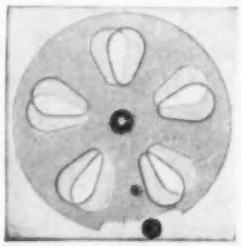

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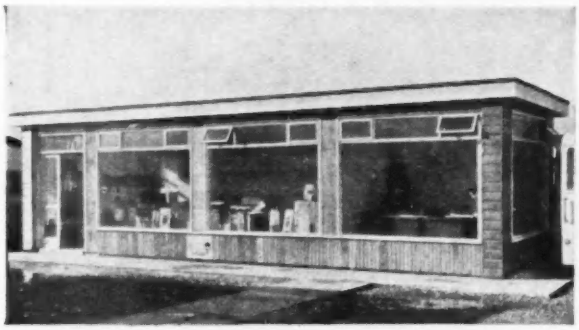

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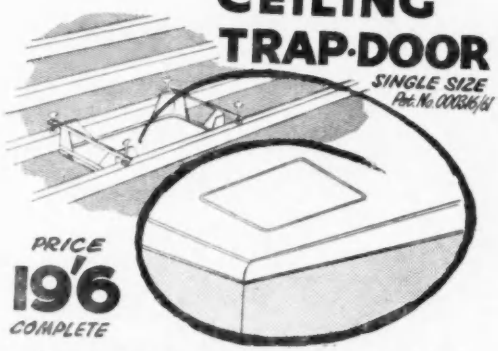

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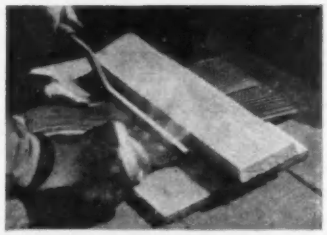

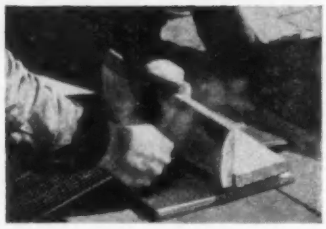

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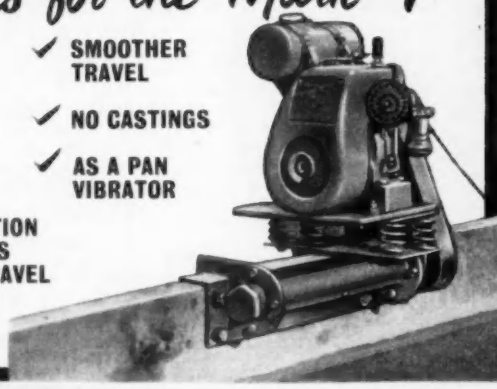

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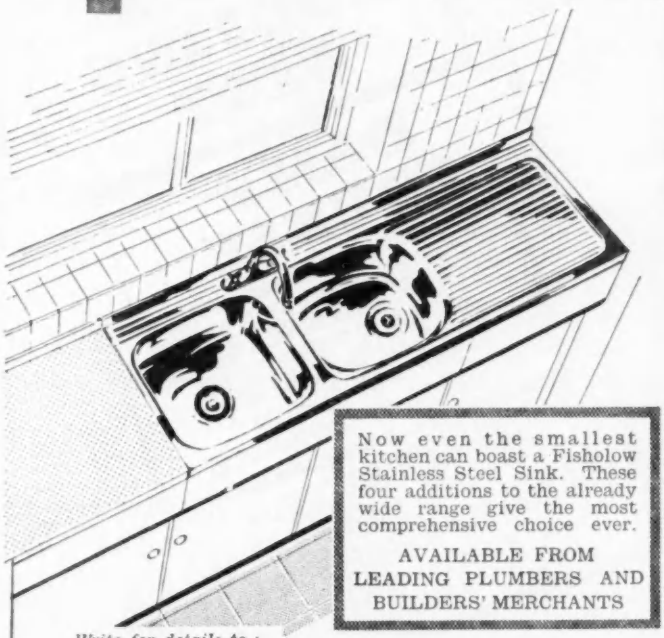

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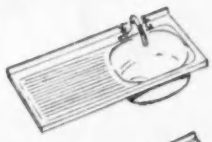

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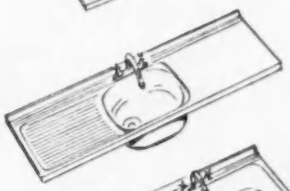

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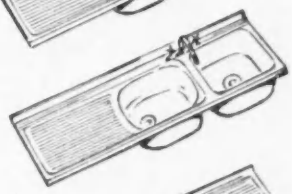

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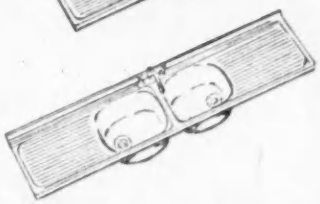

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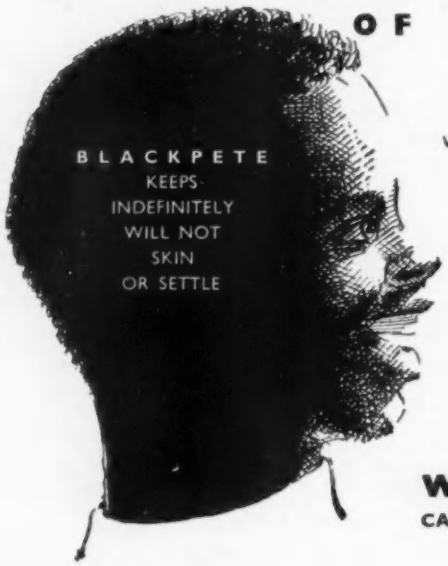

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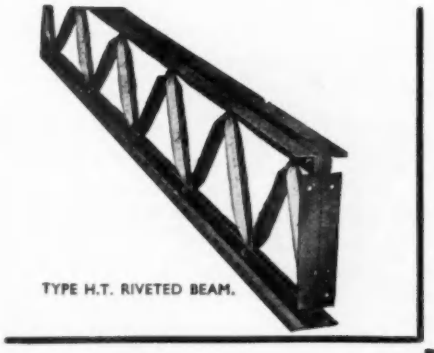

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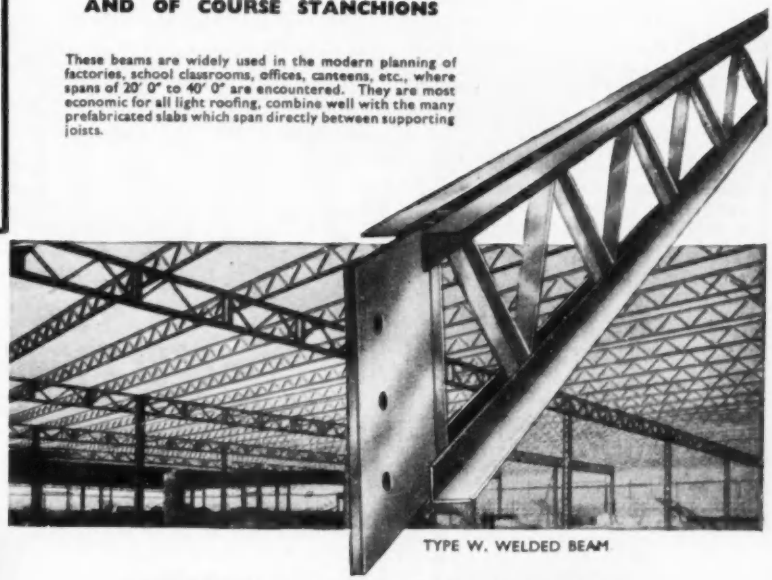

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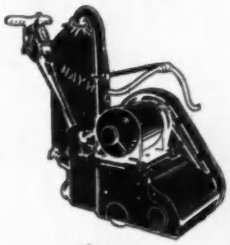

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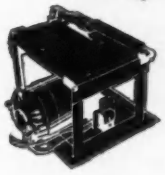

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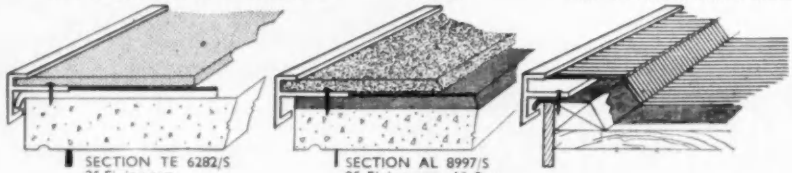

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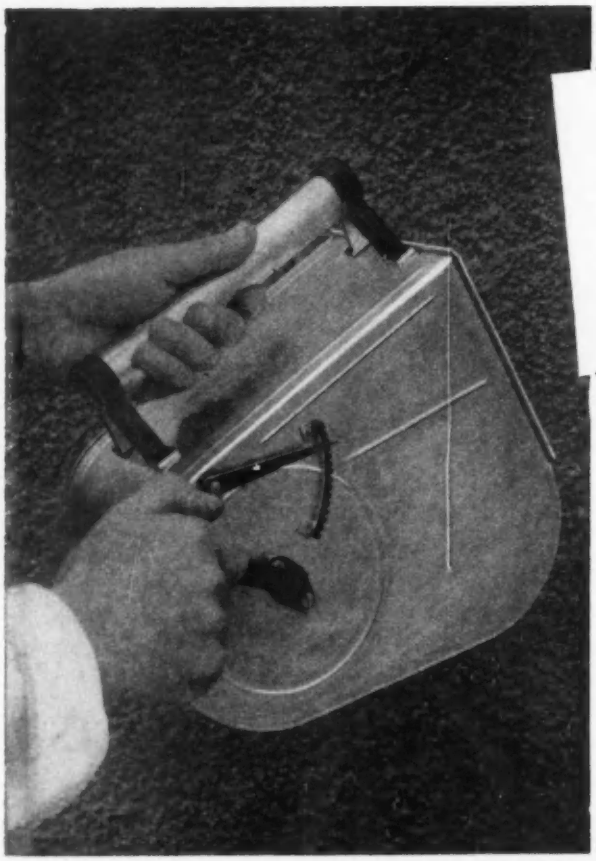

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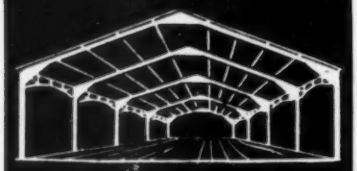

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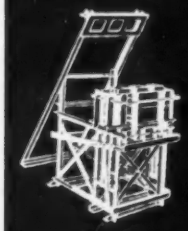

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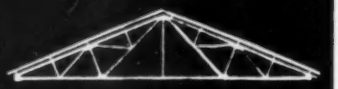

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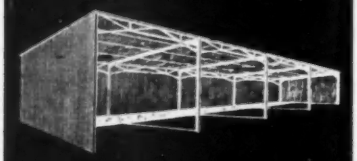

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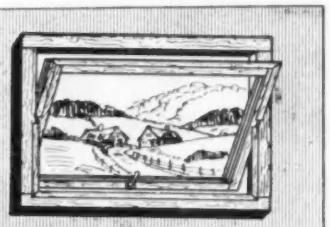
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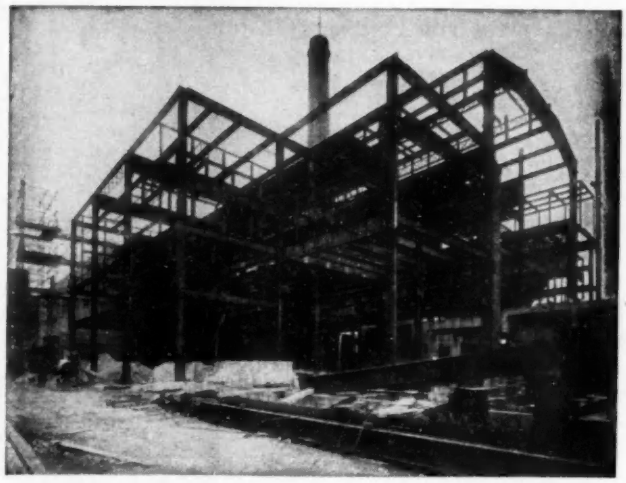

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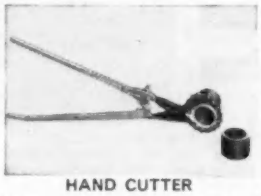

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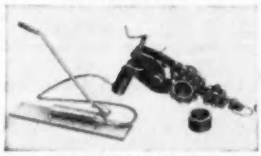

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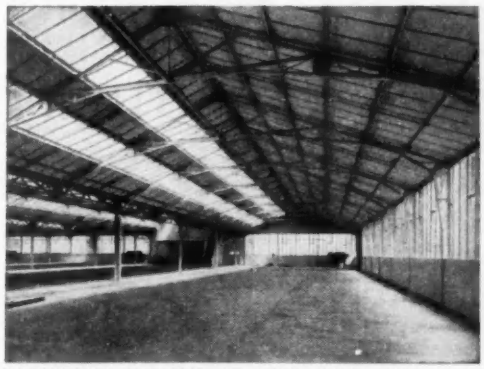

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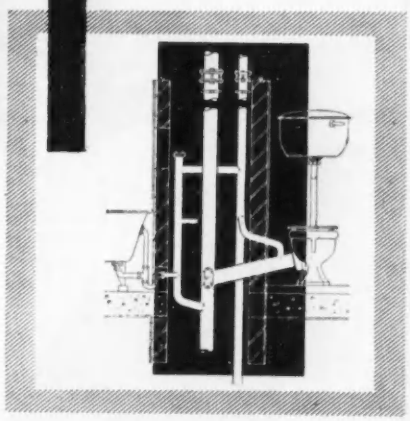

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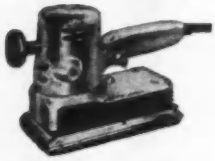

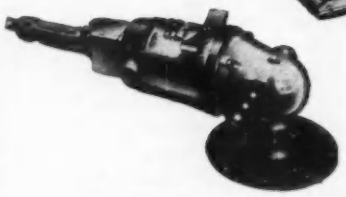

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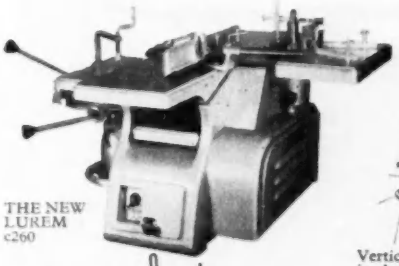

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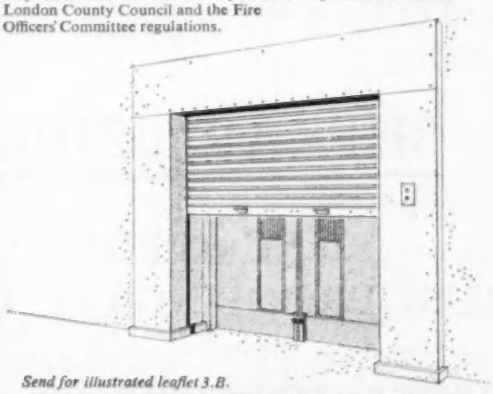

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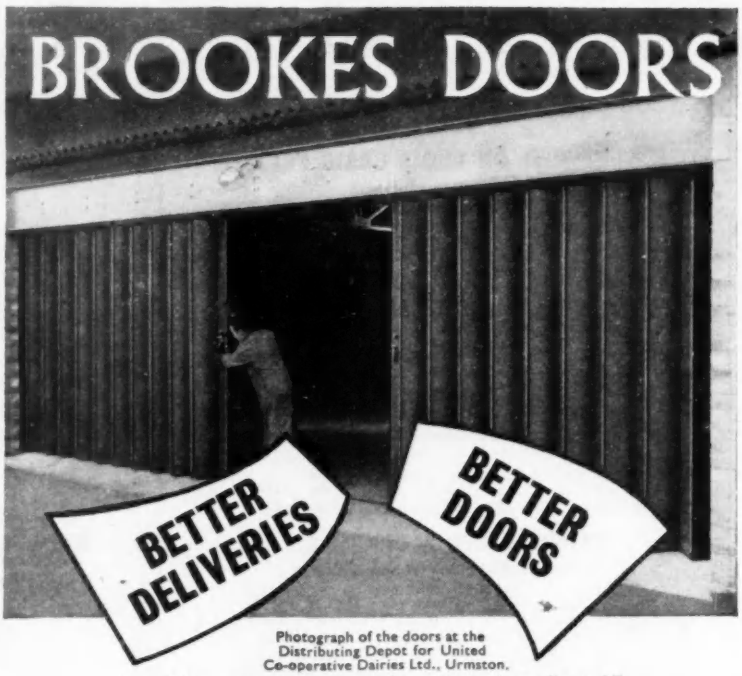

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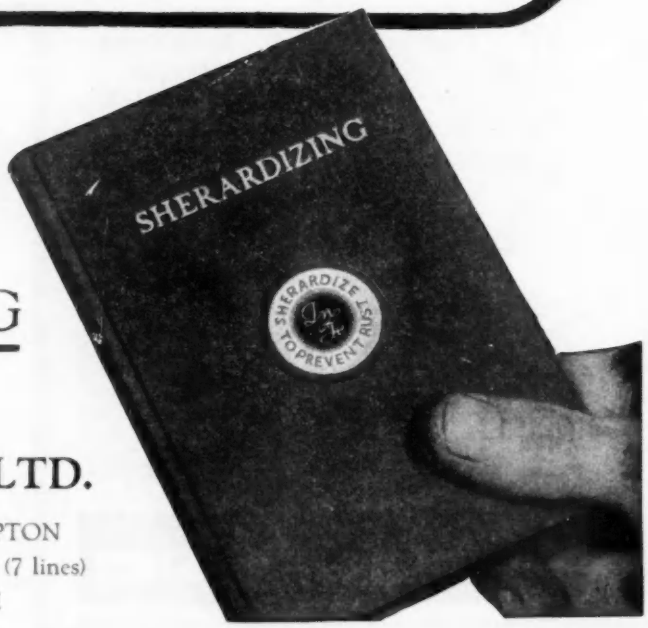

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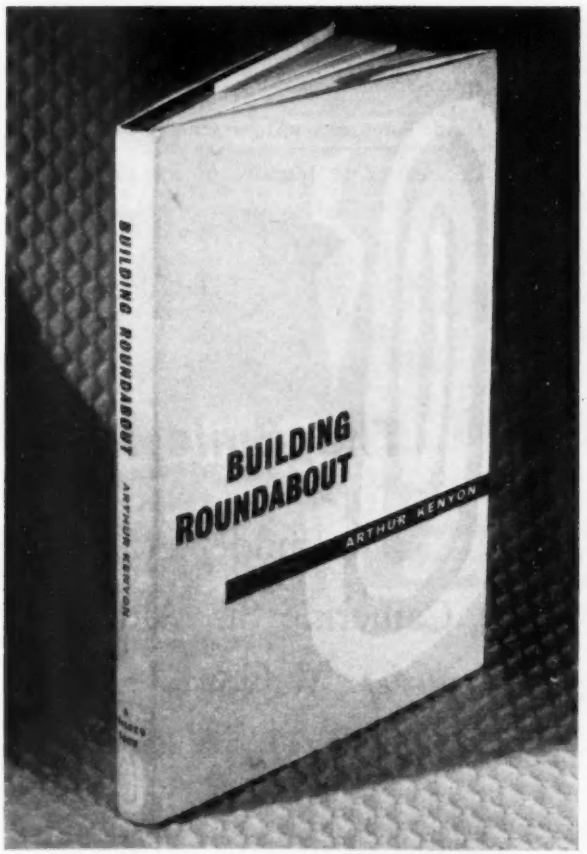

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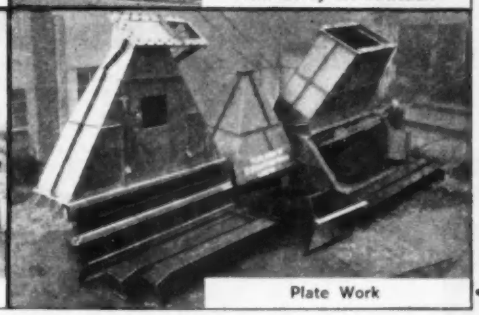
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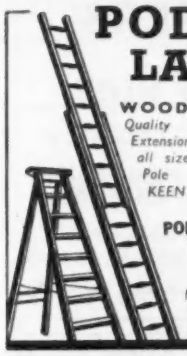

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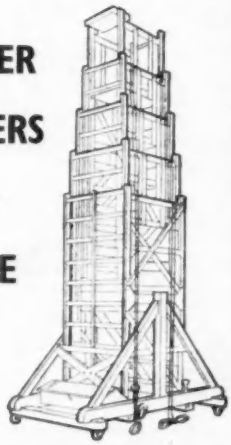

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FIRST-CLASS REINFORCED CONCRETE DETAILERS and CIVIL ENGINEERING DRAUGHTSMEN Required by Consulting Engineers for wide range of work. Excellent salaries and prospects. Holiday arrangements honoured.—Write, stating age and full details of experience, to HARRY BROMPTON & PARTNERS, 7-8 Hobart-place, Grosvenor-gardens, S.W.1.

CENTRAL ELECTRICITY GENERATING BOARD
South Eastern Region
North Thames Division

Applications are invited for the following permanent Superannuable posts in the GENERATION DEPARTMENT (CONSTRUCTION SECTION) at Cockfosters (NORTH LONDON).

SENIOR CIVIL ENGINEERING AND BUILDING DRAUGHTSMAN
(S.V. No. 1482)
Salary range **£1,055—£1,295** per annum

Applicants should have suitable technical training and be thoroughly conversant with the design and detailing of civil and building works including R.C. Structures and Foundations. A knowledge of Structural Steelwork will be an advantage.

JUNIOR CIVIL ENGINEERING AND BUILDING DRAUGHTSMAN
(S.V. No. 1484)
Salary range **£655—£740** per annum

Applicants should have a knowledge of civil engineering and building construction and have had suitable technical training.

The work for all posts is associated with H.V. Substations, Overhead Lines and Generating Stations.

Applications, quoting the appropriate reference S.V. No., stating age, qualifications, experience and present position, should be sent to the **Personnel Officer, Central Electricity Generating Board, South Eastern Region, North Thames Division, West Farm Place, Chalk Lane, Cockfosters, Barnet, Herts.**, to arrive not later than **12th August, 1961.**

OLIVER LAW & PARTNERS. Chartered Architects, 36 Ebury-street, S.W.1. Require one or two ARCHITECTURAL DRAUGHTSMEN, preferably with office experience. Salary according to experience.

SENIOR DRAUGHTSMAN Required for a drawing-office engaged on a variety of interesting work. The man appointed will be primarily engaged on work relating to prefabricated agricultural and industrial buildings. Some experience of precast concrete work is desirable.—Apply, Chief Engineer, CONCRETE UTILITIES, Ltd., Great Amwell, Nr. Ware, Herts.

JUNIOR SHOPFITTING DRAUGHTSMAN Required by leading West London Company. Drawing ability and a flair for design essential.—Apply Box 6667, "The Builder."

ARCHITECTURAL DRAUGHTSMAN Required by BRITISH ROAD SERVICES, Ltd., to work from Manchester in department administering operational premises throughout the North Western counties including maintenance, improvements and alterations and new works. Applicants should have thorough knowledge of building construction, industrial building surveys, and be capable of preparing site plans and ¼ inch scale drawings. The salary range is £795-£950 per annum.—Applications should be addressed to Divisional Staff Officer, BRITISH ROAD SERVICES, Ltd., North Western Division, 47 Corporation-street, Manchester, 4, and should state age, qualifications and experience and give names of two referees.

JUNIOR DRAUGHTSMAN for East London Building Contractors able to prepare drawings for housing and general schemes. Good salary and superannuation scheme.—Apply Box 6629, "The Builder."

ARCHITECTURAL DRAUGHTSMAN/SURVEYOR (Inter. standard) Required for interesting development work, including Surveys, Drawings, Specifications, etc., in West End Surveyor's office.—Write Box 6626, "The Builder."

DRAUGHTSMAN Required with experience of Building trade, for work on Thermal Insulation and ceilings. Age between 18-30. Five-day week.—Apply, stating previous experience, to TENTEST CO., Ltd., Fibroard House, Wheatstone, London, N.20.

ARCHITECTURAL DRAUGHTSMEN Required in London office engaged upon interesting and varied housing projects. Qualifications not essential. High salary according to ability.—Please write to Box 6652, "The Builder."

QUANTITY SURVEYORS

WELL-KNOWN FIRM of London Chartered Quantity Surveyors, with varied and expanding practice, Require experienced ASSISTANTS capable of handling jobs through all stages with the minimum of supervision. Commencing salary up to £1,500 per annum according to ability. The appointments envisaged would be permanent.—Write, giving details of experience and salary expected, to Box 964, "The Builder."

IMPERIAL CHEMICAL INDUSTRIES LIMITED

has a vacancy for an

Assistant Quantity Surveyor

in its Architectural Section in London

Candidates, preferably under 35, should have 5 years' experience of taking off and will also be required to assist in working up, measuring variations and the preparation of final accounts.

Applications, with brief details, should be sent to

Head Office Staff Department (S.M.V.),

Imperial Chemical House, Millbank, London, S.W.1.

ATTENTION

If you consider you have above average ability and can command a salary commensurate with your qualifications, you are invited to apply for one of the following appointments now vacant in a busy and expanding

N.W. London firm of Building Contractors.

QUANTITY SURVEYOR
ESTIMATOR
CONTRACT SUPERVISOR (2)
MOBILE GENERAL FOREMAN (2)
TRAINEE GENERAL FOREMAN
WAGES CLERK.

Transport provided where necessary, a share in the profits of the organisation and superannuation available after probationary period.

Reply giving full details of experience and salary required to

Box No. 6549 "The Builder".

All applications acknowledged.

Kyle Stewart (Contractors) Ltd.

require

EXPERIENCED QUANTITY SURVEYORS

Applicants are invited from senior surveyor fully competent in handling interim certificate and final accounts for all types of contracts. Participation, company's bonus, pension and health schemes.

Car provided. Please write giving full details of experience, age and salary required to:

Managing Director, Ardshiel House, 1, Empire Way, Wembley, Middlesex

SITE QUANTITY SURVEYOR Required by well-established building and civil engineering contractors. Must have considerable experience of civil engineering and building sites and be capable of carrying out all quantity surveying duties with regard to such contracts. Work will be mainly in the Manchester area. Car owner will be paid mileage allowance. Permanent staff appointment. Salary by arrangement. Pension scheme.—Applications to Box 6435, "The Builder."

EXPERIENCED QUANTITY SURVEYOR Required for responsible professional position. Excellent salary and prospects; pension scheme; luncheon vouchers.—Write, stating age, education, experience, and salary required, to Box 941, "The Builder."

ASSISTANT QUANTITY SURVEYOR, R.I.C.S., Intermediate standard. Required in small office on varied and interesting work. Five-day week, L.V.s and pension scheme. Salary by arrangement.—F. B. BRYDEN & PARTNERS, 33 Catherine-place, Westminster, S.W.1. Tel.: VICtoria 0924/5.

CUBITTS

Applications are invited from

QUANTITY SURVEYORS

for appointments in the London Area

Applicants should be aged about 30 and have had some years experience with contractors. The positions are permanent, offering full scope for advancement, together with good conditions of employment and interesting and varied work.

Please send full details of experience and qualifications, with an indication of salary required to:

Personnel Manager (M. 6862),
HOLLAND & HANNEN AND CUBITTS (GREAT BRITAIN) LTD.,
1, Queen Anne's Gate,
LONDON, S.W.1.

CHIEF SENIOR QUANTITY SURVEYOR Required by North East professional firm, applicants must be A.R.I.C.S. and have had a wide experience in all branches of the profession.—Apply, stating age, experience and salary required, Box 6434, "The Builder."

QUANTITY SURVEYORS. Excellent opportunities in Consulting Engineers' office on large industrial project in the Liverpool area.—Write, Box 944, "The Builder."

MERZ AND McLELLAN

invite applications for the following vacancies in their Quantity Surveying department:—

RESIDENT QUANTITY SURVEYOR

(preferably A.R.I.C.S.) to take charge of site office on large and varied long-term building and civil engineering project situated in North Notts. Applicants should have considerable previous experience in all normal quantity surveying duties.

SENIOR QUANTITY SURVEYORS

to be engaged in Head Office at Newcastle upon Tyne. Duties comprise taking-off and settlement of Final accounts, etc., for large building and civil engineering works.

Superannuation scheme in operation. Commencing salaries in accordance with age and experience. Write stating brief particulars to:—

Merz and McLellan,
Consulting Engineers,
Carliol House, Newcastle upon Tyne, 1.

quoting ref. S.A.R.

A. J. WAIT & CO. LTD.

require

QUANTITY SURVEYORS

both

Senior and Assistant

for interesting Contracts in the London and Home Counties Area. Salary commensurate with ability, bonus scheme, pension scheme. Car allowance. Apply in writing, stating age, training, experience and salary required, or telephone for interview to:

Chief Surveyor,
"FIVE STAR"
Kingston Road, New Malden,
Surrey
Malden 0081

TAYLOR WOODROW (OVERSEAS) Ltd.

QUANTITY SURVEYORS

Required in London office for work in taking-off and preparation of Bills of Quantities. Vacancies exist for candidates of both Final and Inter. I.Q.S. standard.

Interviews can be arranged at any time by telephone or by writing to:—

Personnel Manager,
TAYLOR WOODROW (OVERSEAS) Ltd.,
Western House, Western-avenue,
Ealing, W.5.
Tel: PERivale 6641.

SHEFFIELD. SENIOR ASSISTANT Required by Quantity Surveyors for Final Account work. Must be capable of working with minimum supervision. Basic salary £1,350 per annum, plus overtime and car allowance.—Box 6491, "The Builder."

DEARLE & HENDERSON Require recently-qualified ASSISTANTS at both their London and Kent offices.—Write to 75 Victoria-street, S.W.1, or 'phone ABBey 2841 for appointment.

QUANTITY SURVEYORS Required for contracts in North-West, principally for Merseyside and Wirral areas. Experience in interim measurements and final accounts essential. Pension scheme in operation.—Please write, giving details of experience and salary required, to SIR ALFRED McALPINE & SON, Ltd., Hooton, Wirral, Cheshire.

QUANTITY SURVEYORS Require SENIOR SURVEYOR in Birmingham area for settlement of Final Accounts. Permanent position with superannuation. Commencing salary £1,250 per annum or according to experience.—Write, Box 908, "The Builder."

QUALIFIED and experienced QUANTITY SURVEYOR Required. Cost-conscious. Wide knowledge of the building trade. Supervision and control of sub-contracts, negotiation of contracts, experience in housing and large factory and office extensions. Large-scale building and civil engineering. Works procedure to final accounts.—Box 6566, "The Builder."

CHARTERED QUANTITY SURVEYORS have a vacancy for a qualified TAKER-OFF (age 25-33) for a responsible position in office in Victoria area. Holiday arrangements honoured. Usual extras plus annual bonus.—Box 904, "The Builder."

REQUIRED immediately, Quantity Surveyor's ASSISTANT for taking-off and measuring on site, to fill vacancy in York (permanency).—Please reply, giving full particulars, age, experience and salary. Travelling expenses will be paid for interview.—Box 6614, "The Builder."

BUILDER'S QUANTITY SURVEYOR Required. Must be a good negotiator with commercial acumen, also be an experienced Draughtsman for Housing, Flat, Shop Developments, Estate Layouts and Site Surveying. Good salary. Unlimited scope for a person with initiative and capable investigating potentials.—A. H. FIELD (DEVELOPERS), Ltd., 107 Dale-end, Birmingham, 4.

ASSISTANT QUANTITY SURVEYOR for measurement of Nuclear Power Station preferably with knowledge of Standard Method of Measurement of Building Works.—State age, experience and salary required, to Senior Quantity Surveyor, KENNEDY & DONKIN, Consulting Engineers, Hunterston Generating Station, West Kilbride, Ayrshire.

BUILDING AND CIVIL ENGINEERING firm Require two keen, young QUANTITY SURVEYORS to Intermediate standard, for varied and interesting work. Good salary to right men.—Please reply, in confidence, stating age, experience, etc., and salary expected, to Box 6611, "The Builder."

QUANTITY SURVEYOR Required, experienced in Taking-off and Settlement of Accounts, preferably A.R.I.C.S. or A.I.Q.S. and capable of working on own initiative with minimum supervision. The work, in a small office, is varied and interesting. Salary will be by arrangement, commensurate with ability. Annual holiday is three weeks and this year's holiday arrangements will be honoured. A car allowance is payable.—Applications, in writing, giving brief details of experience and training, age, qualifications and salary range anticipated, should be forwarded to TURNER AND HOLMAN, Quantity Surveyors, 8 Blake-street, York.

QUANTITY SURVEYORS. Good opportunity for keen young SURVEYOR to work on own initiative in mid-Kent area on Building and Civil Engineering work—Valuations, Taking-off, etc. Superannuation and transport.—Write Box 6622, "The Builder."

CHARTERED QUANTITY SURVEYORS Require experienced MEASURING SURVEYOR and JUNIOR SURVEYORS for large civil engineering contract in North Kent.—Please write, stating age, experience and salary required, to Box 6659, "The Builder."

QUANTITY SURVEYORS, senior and junior, Required. Experienced in Taking-off and Final Accounts.—Apply, in writing, stating age, experience and salary required, to TOWNSEND AND RENAUDON, Chartered Quantity Surveyors, 46a High-street, Banbury, Oxon.

QUANTITY SURVEYOR Required for post contract services on contracts in Bedfordshire, Hertfordshire and Wiltshire.—Reply, stating age, experience and salary required, to REEKES AND MANN, Chartered Surveyors, 23 Bloomsbury-square, London, W.C.1.

QUANTITY SURVEYORS

Assistant Quantity Surveyors required in Manchester and Preston to join design teams on interesting new building schemes. Applicants should be recently qualified Chartered Quantity Surveyors or about to sit final examination. Five-day week, pension scheme, above-average salaries.

Apply in confidence to—

ARNOLD E. TOWLER, F.R.I.C.S.,
c/o Design Partnership,
Manfield Chambers,
117 Fishergate, Preston

KYLE STEWART (CONTRACTORS) LIMITED

require

BONUS & COSTING SURVEYORS

Interesting work in London and the Home Counties. Successful applicants will have good opportunities for advancement to Q.S. division and be subject to participation in Company's bonus, pension and health schemes. Car provided. Please write, giving full details of experience, age and salary required, to :

Managing Director,
Ardshiel House, Empire Way, Wembley, Middlesex.

H. FAIRWEATHER & CO. LTD.

have a vacancy for a

SENIOR SURVEYOR

Capable of handling large Contract in the North London Area. Must be fully experienced in organising Final Account, measurement and settlement, monthly valuations, etc. Permanent position with Contributory Pension, Life Assurances, and continuous disability schemes for the accepted candidate. Write in confidence stating qualifications, age, etc., to the Personnel Manager,

H. Fairweather & Co. Ltd.,
Hyde Works, St. James's Lane, London, N.10
(Tudor 6400)

BUILDING SURVEYOR

(A.R.I.C.S.)

Salary rising to £1,500

commencing according to experience

Apply **Chief Officer (A1/B/2198/8), L.C.C. Parks Dept., County Hall, S.E.1.**

(Phone: WAT 5000 Ext. 8076)

ROBERT HART & SONS LTD.

require

SURVEYOR

with experience of handling all surveying duties on Medium size Contracts of a varied nature. Five day week. Permanent and pensionable position. Apply in writing, stating Age, Experience, Salary required to:—

Chief Surveyor,
Robert Hart & Sons, Ltd.
121, Victoria Street,
London, S.W.1.

SURVEYOR

required

by firm of Building and Civil Engineering Contractors in London area.

Good prospects and pay for successful applicant with first-class knowledge of his job.

Write, please, to:

Box No. 6648, "The Builder"
in first instance.

TERSONS LIMITED

invite applications for positions of

SENIOR SURVEYORS

for Contracts in the London Area

These positions offer attractive salary and bonus arrangements and car allowance. Successful applicants will be invited to join the Company's Pension Scheme after a satisfactory trial period.

Write in confidence giving age, experience, etc., and stating reference 'L.K.', to—

The Secretary,
Tersons Limited,
Dollis Park, N.3

G. E. WALLIS & SONS, LIMITED

SENIOR SURVEYOR

for South Wales Branch,
NEWPORT, MON.

Fully experienced in settling final accounts, negotiating sub-contracts and surveying of contracts. Permanent position. Right salary to right man. Conditions of employment at interview. Write, marked "Confidential", giving full details of previous experience, to :

The Branch Manager,
G. E. WALLIS & SONS, LTD.,
Cambrian Chambers,
Cambrian Road,
Newport, Mon.

KYLE STEWART (CONTRACTORS) LTD.

require

SURVEYOR/ESTIMATOR

in department for work up to £30,000 in value. Applicants must be fully experienced in dealing with enquiries, site measuring and final accounts. Participation in Company's bonus, pension and health schemes and excellent opportunity for advancement. Car provided. Apply in writing stating age, experience and salary required to **The Managing Director, Kyle Stewart (Contractors) Ltd., Ardshiel House, Empire Way, Wembley, Middlesex.**

BUILDERS' SURVEYOR

required

for local Estate Developers.

To take charge of Final Accounts, Sub-Contractors (Labour only and Labour and Materials) and some Estimating.
Only applicants able to command a salary in excess of £1,000 need apply, in writing, giving details of experience, age and salary required, to

JAMES T. COOK & SON LTD.,
74/76, London Street, Reading

SITE SURVEYOR

Required for works in and around Bristol. Experience of site measurements, settlement of Sub-Contractors' accounts and preparation of interim payments is necessary.

This position offers good prospects in a Company which intends to develop in the West Country.

Apply to:
Chief Surveyor,
Box No. 6538 "The Builder".

SENIOR SURVEYOR

required with sound knowledge of Site Measuring, preparation of Interim and Final Accounts, variations, etc. Full Particulars of age, experience, qualifications and salary required, **to Chief Surveyor,**

R. Fielding & Son (Builders) Ltd., Stanhope Road, Blackpool, Lancs.

SURVEYOR

for general site measuring and bonusing required by building contractors on London contract. Reply in writing giving full particulars of age, training, experience and salary expected to

J. JARVIS & SONS LTD
239 Vauxhall Bridge Rd., London, S.W.1

TERSONS LIMITED

invite applications for positions of

SENIOR SURVEYORS

for Contracts in the Birmingham area.

These positions offer attractive salary and bonus arrangements and car allowance.

Successful applicants will be invited to join the Company's Pension Scheme after a satisfactory trial period.

Write in confidence giving age, experience, etc., to:—

Regional Chief Surveyor,
Tersons Limited,
Grove House,
Sutton New Road,
Erdington, Birmingham, 23.

SENIOR AND ASSISTANT SURVEYORS

required for varied and interesting contracts, both in London and Cheltenham offices. Permanent position. Superannuation scheme. 5-day week. Existing holiday arrangements honoured. Write stating age, experience and salary required to Chief Surveyor

WILLIAM MOSS & SONS, LTD.,
North Circular Road, Cricklewood,
London, N.W.2

Leading firm of Building and Civil Engineering contractors invite applications from

COST SURVEYORS

for bonus and costing duties on contracts in the London area.

The positions are permanent and offer good scope for progress. Superannuation and staff bonus schemes in operation.

Apply in confidence, stating age, experience, in details, and salary required, to Box No. CS 5443, A.K. Advtg., 212a, Shaftesbury Avenue, London, W.C.2.

SURVEYORS

Would you like to move amongst the upper crust of London Society, and meet some remarkable people? Then come and join the Surveyors of our small Works Department, who do just this, handling the job from estimate to final account. Good qualifications and experience essential. Good salary, pension scheme, etc. Holiday arrangements honoured. Write with details to

Box 6588 "The Builder".

TERSONS LIMITED

require a

RESIDENT BUILDING SURVEYOR

for an interesting and substantial project shortly to commence in Southend. Excellent prospects for a keen man. Existing holiday arrangements will be accepted.

Apply in confidence, stating age, experience and previous Employers, quoting reference 'RJ', to:

The Secretary,
Tersons Limited,
Dollis Park,
London, N.3

BONUS SURVEYOR

required by London Building & Civil Engineering Contractors. Must be capable of site measurement and working up Bonus Scheme. Experienced men only. Good salary and Staff conditions.

Apply in writing to

Box No. 6657 "The Builder"

SURVEYORS

BUILDERS' ESTIMATING SURVEYOR Required near Reading. Experienced in dealing with estimates from enquiry to final account. Must be capable of organising and supervising his own jobs and working on his own initiative.—Reply giving full particulars of experience, references, age and salary required, Box 940, "The Builder."

MEASURING SURVEYOR Required by Quantity Surveyors, Westminster, for work in the London area. Salary according to qualifications and experience and reviewed regularly. Luncheon vouchers, Pension scheme.—Apply, stating age and experience, to Box 936, "The Builder."

MEASURING SURVEYOR for interim valuations and final accounts Required by London Chartered Quantity Surveyors. Luncheon vouchers and non-contributory pension scheme.—Write, stating age, experience and salary required, to Box 973, "The Builder."

MAINTENANCE SURVEYOR, age 22/27, London property company.—Write The Surveyor, Box 949, "The Builder."

BUILDER'S MEASURING SURVEYOR Required, contracts Berks/Hampshire; permanency.—Write, full particulars, to DRURY CONSTRUCTION (SOUTHERN), Ltd., 4 Farncombe-road, Worthing.

EXPERIENCED MEASURING SURVEYOR Required by City Chartered Quantity Surveyors. Pension and Life Insurance scheme.—State age, experience and salary required, to Box 6458, "The Builder."

MEASURING SURVEYOR, experienced Interim Valuations and Final Accounts. State age, experience and salary required.—Apply by letter to C. CORNES & SON, Ltd., 169 Litchfield-street, Hanley, Stoke-on-Trent.

BUILDING SURVEYORS Required. Must be experienced in measuring Sub-Contractors, Variation Orders, Preparation of Interim Valuations and Final Accounts.—Apply, stating age, experience and salary required, to S. VARNEY AND CO., Ltd., Credon House, Verney-road, London, S.E.16.

NORTH LONDON BUILDERS engaged on private enterprise and contract work, Require JUNIOR SURVEYOR with some experience of quantities and site measuring. Prospects of advancement.—Full particulars to Box 6568, "The Builder."

BUILDING SURVEYOR Required, with about five years' post-qualification experience, for work on new buildings, alterations and conversions. Competent draughtsmanship and experience in preparing detail drawings essential. Salary up to £1,200 according to experience.—Apply, in writing, or by telephone, to BROWETT, TAYLOR & CO., Chartered Surveyors, 3 & 4 Lincoln's Inn Fields, London, W.C.2. CHAncery 8275.

KEEN YOUNG ESTIMATING SURVEYOR Required in S.E. London area, with organising ability and experience in commercial alterations and jobbing work from enquiry to final account.—Write, stating age, experience and salary required, Box 6431, "The Builder."

SITE MEASURING SURVEYORS Required by an expanding company. Only those with experience in handling L.O. trades, all sub-contractors and interim valuations need apply.—Reply, stating age, qualifications, experience and salary required, Box 6525, "The Builder."

JUNIOR SURVEYOR Required by an expanding company to assist Senior Surveyors. Must have O.N.C. or equivalent.—Reply, stating age, qualifications, experience and salary required, Box 6526, "The Builder."

Y. J. LOVELL (SUSSEX) Ltd. Require experienced CONTRACT SURVEYOR at Horsham for Kent/Surrey/Sussex area.—Please apply, giving details of age, experience and salary required, to Executive Director, Bishopric, Horsham, Sussex.

PIPEWORK. Chartered Quantity Surveyors Require SITE MEASURING SURVEYOR on large contract in Berkshire. Five-day week. Summer holidays honoured. Please give full details of experience and salary required.—Box 6522, "The Builder."

SURVEYOR/ESTIMATOR, capable of undertaking small works and contracts up to £50,000 from enquiry to final account, Required by West Kent Contractors.—Box 6517, "The Builder."

TECHNICAL ASSISTANT Required, experienced in the design, installation and economics of all types of heating and ventilating systems. A.M.I.E.E., A.M.I.Mech.E. or A.M.I.H.V.E. desirable. Commencing salary £1,050 rising to £1,125. £20 London allowance. Promotion prospects are good; free and other travel facilities; superannuation fund; five-day week.—Apply, giving details of experience and qualifications, to Chief Civil Engineer (Reference SF), Southern Region, BRITISH RAILWAYS, Waterloo Station, S.E.1.

BUILDING SURVEYOR Required by progressive company in West London. Should have experience of site measurement, preparation of valuations and final accounts.—Write full details and salary required, to Box 6590, "The Builder."

SURVEYOR Required, Small Works Department of West End Contractors. Capable measuring and finalising accounts. Contributory pension scheme.—Details of age and experience to Mr. Morrison, GEE, WALKER & SLATER, Ltd., 100 Park-lane, W.1.

SIR LINDSAY PARKINSON & CO., Ltd., Require the following staff SENIOR and ASSISTANT SURVEYORS for various and interesting contracts within the United Kingdom. Successful applicants must be prepared to be based on site. Vacancies also occur in our London office. Write, giving full particulars, age and salary required.—Chief Surveyor, 6 Lambeth-road, St. George's Circus, London, S.E.1.

SITE SURVEYOR Required for large building and civil engineering contract in Epsom. Older man, retired or semi-retired, considered.—Apply, giving full particulars, to Box 6625, "The Builder."

SENIOR and SITE SURVEYORS Required for Manchester area for Contracts due to commence. Permanent and progressive pensionable position with commensurate salary.—Full details to Chief Surveyor, W. J. SIMMS SONS & COOKE, Ltd., 396 Wilmslow-road, Withington, Manchester 20.

SURVEYOR for preparation of estimates for r.c. framed structures. Permanent position with non-contributory pension scheme.—Write details of experience, age, salary required to Box 6651, "The Builder."

ASSISTANT SURVEYORS

ASSISTANT SITE MEASURING SURVEYORS Required by National Building Contractors for Contracts in various counties. Experienced at handling all types of Surveying matters from Initial Stage to Final Accounts.—Write, giving full particulars of previous experience, age and salary required, Chief Surveyor, Box TB.700, L.P.E., 60/62 St. Martin's-lane, W.C.2.

REQUIRED: a SURVEYOR'S ASSISTANT. Must be of Intermediate standard of R.I.C.S. in Building Surveying section and capable of writing Specifications, preparing Schedules of Dilapidations and Condition, be a neat draughtsman and have a good knowledge of Building Construction. Interesting and varied work offered. Salary according to experience.—Write to ELLIOTT SON & BOYTON, at 86/7 Wimpole-street, London, W.1.

ASSISTANT, with knowledge of quantities, for preparation of estimates for r.c. framed structures. Permanent position with non-contributory pension scheme.—Write details of age, experience, to Box 6650, "The Builder."

JUNIORS

JUNIOR Required by Chartered Quantity Surveyors near Oxford Circus. Excellent opportunity for learning the profession; good prospects.—Write, giving details of education, etc., to Box 6586, "The Builder."

OPPORTUNITY for young man with property experience to join an expanding London, W.1, Property Company. Interesting and varied duties with prospects of advancement.—Apply Ref. S., Box 6608, "The Builder."

MALE JUNIOR ASSISTANT Required for the Buying Department of a large London firm of Building Contractors and Engineers. Experience in this field desirable but not essential.—Apply, stating age and full details of experience, etc., to Box 6609, "The Builder."

YOUNG MEN, 19/25 years of age, of good education and appearance, Required by Building Trade Specialist Contractors for training with a view to undertaking responsible positions in the Company.—Write stating fullest details of education, background and age, to Box 6661, "The Builder."

TERSONS LIMITED

Require

ASSISTANT SURVEYORS

for Contracts in the Birmingham area.

Every assistance and encouragement will be given for advancement.

Please write with fullest details of age, experience and salary required to:—

Regional Chief Surveyor,
Tersons Limited,
Grove House,
Sutton New Road,
Erdington, Birmingham, 23.

Assistant Surveyor

required in West Middlesex area

Applicant must be experienced in all phases of surveying and in agreeing final accounts. Opportunity to understudy Estimator. Full details to:

Box No. 6500, "The Builder"

CUBITTS FITZPATRICK SHAND PARK LANE IMPROVEMENT SCHEME

require

SENIOR ASSISTANT SURVEYOR

Capable of handling all Surveying duties. Experience of Civil Engineering Contracts an advantage. Attractive salary and Bonus offered. Apply in writing, stating age and experience, to—

Project Manager, Cubitts Fitzpatrick Shand, L.C.C. Park Lane Improvement, Site Offices, East Carriage Driveway, Park Lane, W.1.

TERSONS LIMITED

Require

Assistant Surveyors

for Contracts in the London area

Every assistance and encouragement will be given for advancement.

Please write with fullest details of age, experience and salary required, and stating reference 'L.K.', to—

The Secretary,
Tersons Limited,
Dollis Park, N.3

TAKERS OFF

SENIOR TAKER-OFF for responsible position in busy Quantity Surveyors' office. Westminster. Salary commensurate with responsibility. Luncheon vouchers, pension scheme.—Brief details to Box 931, "The Builder."

TAKERS-OFF Required in Chartered Quantity Surveyors' office on work which is varied in nature. Good salaries will be paid to persons who will maintain the high professional standard of the office. Luncheon vouchers, pension and life insurance schemes in operation.—Apply by telephone, Chancery 5841, Reference S.D.M., or in writing, to Box 910, "The Builder."

TAKERS-OFF and MEASURING SURVEYORS Required by London Chartered Quantity Surveyors. Luncheon vouchers and non-contributory pension scheme.—Write, stating age, experience and salary required, to Box 977, "The Builder."

EXPERIENCED TAKERS-OFF Required for professional offices in the East Croydon area. Salary according to qualifications and experience. Luncheon vouchers. Contributory pension scheme.—Apply, with brief details, to Box 921, "The Builder."

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TAKERS-OFF Required by London Chartered Quantity Surveyors.—Apply WHEELER, RUMBLE & PARTNERS, 16 Grenville-street, Brunswick-square, W.C.1. Terminus 1107.

JUNIOR TAKER-OFF, of Intermediate Standard, Required by Quantity Surveyors to work on all trades for a variety of projects. Pension scheme and five-day week.—Details of age, experience and salary to H. S. HAUGHTON & PARTNERS, Royal Building, St. Andrew's Cross, Plymouth.

TAKERS-OFF Required by London Quantity Surveyors. Salary scale £900-£1,500 per annum, according to ability, plus overtime.—Please write, giving details of experience, age, etc., to Box 6558, "The Builder."

TAKER-OFF Required in small Quantity's office in the City. Intermediate to Final standard. Scope for varied experience.—'Phone: Avenue 1521.

SENIOR TAKER-OFF (A.R.I.C.S. preferred) Required in London office by busy firm of Chartered Quantity Surveyors. Commencing salary £1,250-£1,600, according to qualifications and experience; overtime available. Non-contributory pension and insurance scheme, and luncheon vouchers. Option of interesting work abroad.—Write Box 6630, "The Builder."

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SENIOR TAKER-OFF Required by a small London chartered firm, having varied practice, salary up to £1,400 per annum.—Write, stating age, professional experience and when available for interview, to Box 6633, "The Builder."

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WORKERS-UP Required by busy Chartered Quantity Surveyor's office. Good salary paid for loyal, hard-working men with two years minimum experience. Luncheon vouchers, 5-day week, overtime.—Particulars: S. LAZARUS & PARTNERS, 67 New Cavendish-street, Portland-place, London, W.1.

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WORKER-UP Required by small City firm of Chartered Quantity Surveyors. Two years' experience in professional office. Five-day week. Write, stating age and salary required.—Box 6612, "The Builder."

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ENGINEER/SURVEYOR of Intermediate Standard Required for work on large-scale housing development. Applicants must have both drawing office and site experience. Possession of current driving licence essential. Pension scheme. Staff canteen.—Apply, Office Manager, TAYLOR WOODROW HOMES, Ltd., Western House, Western-avenue, Ealing, W.5.

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required to programme and co-ordinate the design, manufacture and construction of precast and in-situ reinforced concrete structures. Applicants should have had previous experience of Contract Planning in the building and/or civil engineering industry, and should be aged 25/40.

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Sound knowledge of ESTIMATING required, and fully experienced in settling final accounts, negotiating sub-contracts and organizing surveying of contracts. Permanent position. Right salary will be paid to right man. Conditions of employment at interview. Write marked "Confidential", giving full details of previous experience to:

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ESTIMATORS

preferably with some specialist experience for work on all types of structural reinforced concrete.

SURVEYORS

to prepare interim and final accounts and to negotiate to final settlement.

Every assistance would be given during transition period. Prospects are excellent and good salaries will be paid. 3 weeks holiday, bonus and pension schemes are in operation.

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ESTIMATOR Required for Joinery Section of North London firm of Joinery and Shopfitters.—Write stating age, experience and salary required, to Box 6231, "The Builder."

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WALL and FLOOR TILE ESTIMATOR/SURVEYOR Required.—Apply in writing, ROBERTS ADLARD & CO., Ltd., Watford, Herts, stating full details of experience, etc.

ESTIMATOR Required. Small Works Department of National Contractors, West End office. Capable preparing estimates from Drawings, Specifications and Bills of Quantities. Contributory pension scheme. Details of age and experience to Mr. Morrison, GEE, WALKER & SLATER, Ltd., 100 Park-lane, W.1.

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ESTIMATOR and SURVEYOR Required for Company engaged in specialist Building work. Good prospects and salary.—Apply in writing, PYROK CONTRACTS, Ltd., Pool-lane, Langley, Birmingham.

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Experienced Joinery Estimator for works in Kingston, Surrey.

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ASSISTANT Required for small works department of London Building Contractors, experience essential in Taking-off, Estimating and supervising contracts up to £5,000. Write stating age, experience and salary required.—Box 6654, "The Builder."

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Opportunity for a young man 21–25 to widen his experience with a progressive Company

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COMMERCIAL MANAGER (Repeat Advertisement) Required for Specialist Flooring Company in the Birmingham area. Qualifications need not include close knowledge of flooring trade, but applicant should have wide experience in Building industry, including costing, tendering and negotiating procedure, invoicing and office administration. This is a small subsidiary company but capacity and finance are available, giving good opportunity to enthusiastic man. The post, which is pensionable, offers commencing salary of up to £1,250 per annum, according to experience.—Prior to interview, particulars of career (treated in fullest confidence) should be sent to Box No. 4214, c/o CHARLES BARKER & SONS, Ltd., Gateway House, London, E.C.4.

EXPERIENCED CASHIER/OFFICE MANAGER Required for Ffestiniog Pumped Storage Contract, Blaenau Ffestiniog, Merionethshire. Past experience with machine accounting an advantage.—Reply, giving details of past experience to THE CEMENTATION CO., Ltd., Civil Engineering Division, Bentley Works, Doncaster.

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Previous experience of testing is necessary and applicants should be able to control and instruct staff. The appointment is a new one and offers excellent scope for advancement.

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Application forms will be forwarded to suitable candidates and initial replies giving brief details should be addressed to:

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National firm of Building & Civil Engineering Contractors requires a **Steel Yard Manager** to be responsible for ordering materials from drawings and bending schedules, checking and recording materials delivered, transporting materials to site and the control of a labour force in stock yard.

This is a post which offers large scope to a reliable person who has spent his working life in reinforced concrete work and has held a similar position for at least five years. Age: 35 to 45 years.

Salary by negotiation. A car allowance will also be paid.

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Successful and expanding medium sized London Building Contractors, are seeking a hard working, competent and experienced Contracts Manager, to take control of a section of current work, under the direction of the Contracts Director.

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BUILDERS' ASSISTANTS

for specialized duties within the Estimating Department at the Head Office in Mill Hill.

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The positions are permanent and pensionable, and offer excellent prospects to men well experienced in taking charge of large building contracts, and who are accustomed to working to a very high standard.

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Require
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AGENT

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ESTABLISHED firm of Estate Developers invite applications for post as SITE AGENT to supervise construction of roads, sewers and erection of blocks of flats, bungalows, etc., on Hayling Island only. Several years' work for successful applicants who will be expected to reside within easy distance of site. Generous salary with allowances and bonus incentive scheme.—Please write in first instance to H. B. KINGSTON, Ltd., 145 London-road, Kingston-upon-Thames, giving details of experience and qualifications.

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required by building and civil engineering contractors for major contracts in London and Home Counties. Apply in writing giving details of age, training, experience and salary expected to—

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FOR CONTRACTS UP TO £500,000. APPLICANTS SHOULD POSSESS DRIVE AND BE WELL VERSED IN ALL ASPECTS OF BUILDING, IN PARTICULAR PRE-PLANNING AND COSTING.

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WITH PREVIOUS EXPERIENCE WITH CONTRACTOR ON BUILDING WORK INITIATIVE AND ABILITY TO CONTROL ACCOUNTS FROM COMMENCEMENT TO AGREEMENT.

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BUILDING & CIVIL ENGINEERING CONTRACTORS
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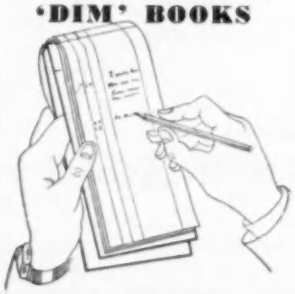

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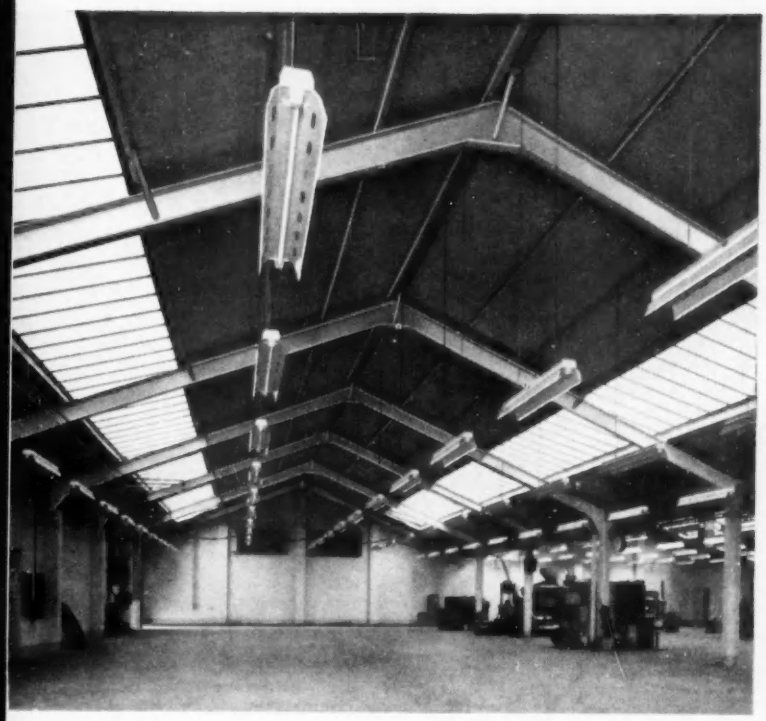

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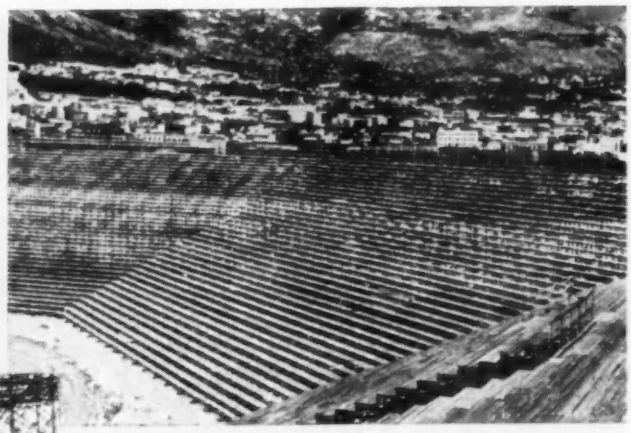

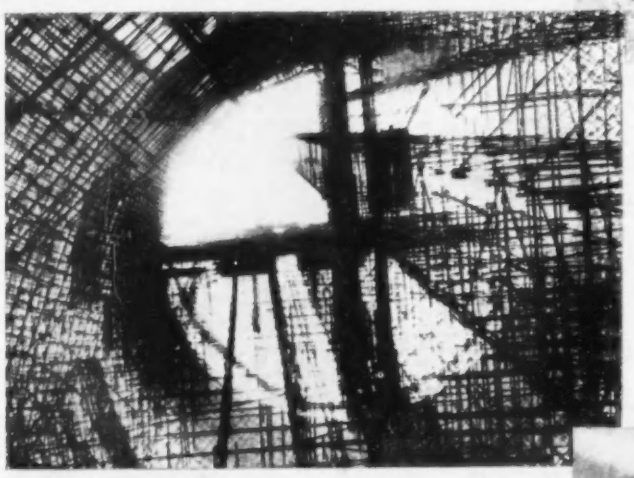

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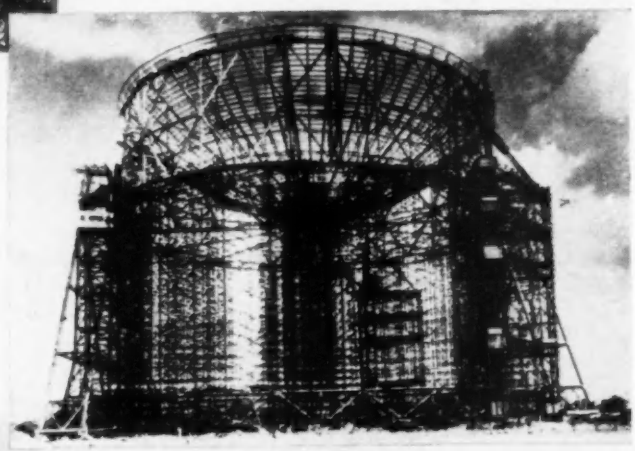

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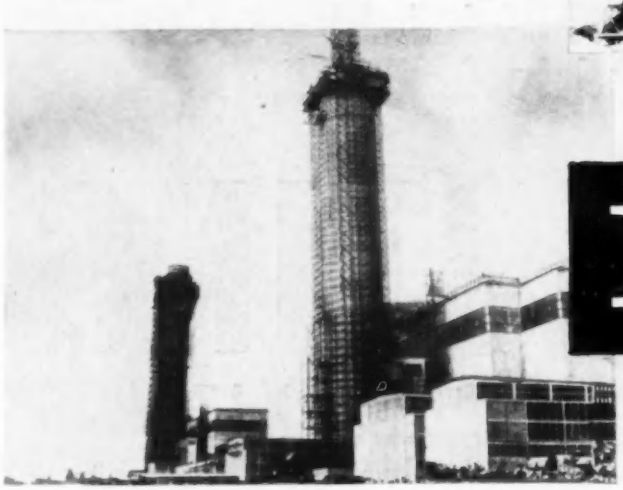

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